The National Future Farmer

Owned and Published by the Future Farmers of America

Photo by Bob E. Taylor

June-July, 1957

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Scott Moser, left, reviews soil conservation problem with "Pic" Bittner, Salisbury, Pa., Firestone Dealer.

Farmers you look to as leaders look to **Firestone** *for farm tires*

Pennsylvania's "roof garden" is well named. The rich, rolling plateau that makes up Somerset County lies a half-mile high. Here the Allegheny Mountains cradle a green land whose high farm and dairy yields have rewarded Pennsylvania farmers every year since 1768.

Some of Somerset's greenest acres lie where Scott Moser farms—just outside Salisbury borough. For over forty years, Mr. Moser's successful, diversified farming has even included a late winter crop. That, of course, is Somerset County's famous maple syrup.

Scott Moser is equally diversified in public service. He was local soil conservation chairman for many years—found time to serve as township road supervisor—and still fills in as a volunteer fireman in Salisbury, for good measure.

Like most of his neighbors, Scott Moser likes Firestone Farm Tires. His farming over tough, rolling terrain calls for extra pulling power—and the toughest tread in the business. That's why you find Firestone Champion Ground Grip® Tires on Mr. Moser's tractor.

Says Scott Moser, "We simply can't beat those tough Firestones. Practically all of our farm tires are Firestone—always have been and always will be!"

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The National Future Farmer

Owned and Published by the Future Farmers of America

JUNE-JULY, 1957 ● Vol. 5, No. 5

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OUR COVER—Photo by Bob E. Taylor

FFA members are not confined to the four walls of a classroom for instruction in vocational agriculture. Here, two members are absorbed in following each step of a demonstration being given by their FFA Advisor.

THE NATIONAL FUTURE FARMER is published bimonthly by the Future Farmers of America, Inc., at 810 Rhode Island Avenue, N. E., Washington, D. C. Entered as second-class matter at the post office at Washington, D. C. Acceptance for mailing at special rate of postage provided for in section 34.40(e).

Single subscription is 50c per year in U. S. and possessions. Foreign subscriptions $1.00 per year. Single copies, 10c in U. S.

CHANGE OF ADDRESS: Send both old and new addresses to Editorial Offices, THE NATIONAL FUTURE FARMER, Box 29, Alexandria, Virginia.

BIG BITE from the land that feeds you!

Each year of late, our farms have produced near record amounts of food, feed and fiber. In doing this, they are using up soil nitrogen faster than any other plant food, mainly because many major crops need more nitrogen than any other plant food. As methods of measuring nitrogen in the soil and in plants improve, we're beginning to see how fast soil nitrogen disappears.

For example, it takes about 160 pounds of nitrogen per acre to grow 100 bushels of corn. At least 100 pounds of this nitrogen is in the corn ears—about one pound per bushel. Last year we grew more than three billion bushels of corn, thus removing 1,500,000 tons of nitrogen from our soil.

All the fertilizer used on corn provided only 420,000 tons of nitrogen. Manure and legumes added a little. So we took a million tons more nitrogen from our corn land than we put back. Loss of nitrogen also brings loss of organic matter—the humus that makes our soil easy to work, easy for crop roots to penetrate . . . loss of humus that stores up extra soil moisture that crops need.

Many farmers have used legumes to try to build nitrogen balance. For some livestock farmers, this may work. For cash crop farmers especially, today's low-cost nitrogen fertilizer is faster, easier and less expensive.

Yes, when you grow crops without enough nitrogen, you take a big bite out of the land—and out of crop profits. But successful farmers who grow high-yield crops year after year know the answer. Year after year, they apply plenty of high-nitrogen fertilizer. Today many easy-handling, low-cost fertilizers rich in nitrogen are available everywhere. It pays to use them!

Nitrogen Division, long-time leading supplier of nitrogen to the fertilizer industry, is continuing to improve its facilities for supplying low-cost, easy-to-use liquid and dry nitrogen for all methods of application.

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A Fellow Told Me...

. . . THERE'S BEEN CONSIDERABLE discussion of late about girls, mothers, and WIVES reading *The National FUTURE FARMER.* Glad they think enough of us to read our magazine . . . and while we're on the subject of "ladies," perhaps you'd like to meet the fairer ones of our magazine staff.

Rosalind Pazzato

. . . Rosalind Pazzato, Advertising Assistant, joined the staff July, 1956. She is a native of Atlanta, Georgia where she was employed as a legal secretary before joining the magazine staff.

Rosalind attended GAB School of Commerce, and John Marshall School of Law.

She spent two and one-half years in Europe where she was affiliated with the Red Cross.

She does secretarial work for the advertising department, and is responsible for all advertising plates, proofs, key numbers, contracts, and insertion orders.

Valeria Gillis

. . . Valeria Gillis, Editorial Assistant, joined the staff in February of this year. She is from Kalamazoo, Michigan, where she was employed by Michigan Bell Telephone Company. Formerly, she worked for the Red Cross in Japan for one and one-half years.

She attended Western Michigan College and Bowling Green (Kentucky) Business University.

Valeria does secretarial work for both editorial and calendar work and is responsible for typing and editing manuscripts and copy for the magazine.

Marilyn Zandy

. . . Marilyn Zandy, Circulation Assistant, joined the staff in February of this year. She hails from North Carolina, where she was employed by the Agricultural Stabilization Conservation Service.

She attended James Walker Memorial Hospital School of Nursing, and was a member of the Future Homemakers of America in Burgaw (N. C.) High School for four years.

Marilyn, and Peggy (lower left) work as a team—processing subscriptions, sending out letters of inquiry about changes of addresses, typing, and mailing, and tabulating reader surveys.

Peggy Donnelly

. . . Peggy Donnelly, Circulation Assistant, joined the staff in October, 1956. She came to the magazine from Newark, New Jersey, where she was employed by Hahne and Company.

She was graduated from Weequahic School of Newark.

Sorry, fellows— they're all married.

Hank

New Holland's "440" mows and crushes in one operation

Tenderized hay makes a Grade A feed

WHAT is Grade "A" feed? Clearly it is feed which is at once rich in nutrients *and* especially sweet, tender and palatable. It is feed that promotes livestock health and insures maximum milk production or develops highest quality meat.

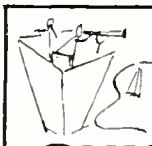
The recent development of the hay crushing technique has now made it possible to produce such feed easily and dependably. By splitting the stems lengthwise, the crusher promotes uniform curing. Stems and leaves dry evenly . . . are ready for raking in about half the time. As a result, leaves are less apt to be stripped from the stems and nutrient loss is further cut because exposure to the sun is reduced.

Samples of crushed Johnson grass showed twice the carotene content at baling time as non-crushed. Soybeans showed a similar improvement; with an increase of 2.4% in the protein content of the crushed samples.

Furthermore, crushing "tenderizes" the stems, making them more desirable for animals. In recent studies, heifers have eaten twice as many pounds daily of this tender, leafier, sweeter hay. And milking cows have been known to increase their consumption by one-third.

New Holland's 440 Mower Crusher mows and crushes in a single operation that takes no longer than mowing alone. It's another of the advanced haymaking machines that make far better hay quickly and economically. New Holland Machine Company Division of Sperry Rand Corporation, New Holland, Pennsylvania.

NEW HOLLAND *"First in Grassland Farming"*



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and lounge
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'Old-World'
Setting

THE
NEW
Hamilton
HOTEL
20 SOUTH DEARBORN
CHICAGO

Sulligent, Alabama

Our Chapter subscribes 100 per cent every year to *The National FUTURE FARMER* magazine. We enjoy it from cover to cover. Glad it comes oftener, for we are a very enthusiastic group about our organization. The more of FFA that we can get, the better we like it. We realize more and more every day what it means to us farm boys.

Give our regards to Charles Ritter (our old neighbor) of your staff. Also to Mr. Wilson Carnes, who has been a pleasant visitor among us many times.

Douglas Dalton
Reporter

Lexington, Nebraska

My subscription to the Future Farmer magazine recently ran out, and I have had to borrow the last two issues. I want to say that I really enjoy our magazine, especially the stories of fellow Future Farmers. The only complaint I have, is that it just doesn't come out often enough.

I sure hope that *The National FUTURE FARMER* may someday soon become a monthly. The magazine you fellows put together is a swell by-product of a really tops organization. Thanks a lot.

Dick Burkey

Kent, Illinois

I've been wanting to write a letter to you for a long time, and since I read Miss Green's letter in the current issue, I've taken my courage in hand and here I am. However, I must point out one mistake that you made when you said that readers' sisters and mothers read their magazine—you forgot their wives!

We've had a subscription ever since *The National FUTURE FARMER* was started and both of us have enjoyed it very much. Often, we've thought that if we wrote a letter to the Reader Roundup, we might encourage other young married couples to write both to us and to you. In case you would like some statistics about us and our interest in the FFA, here they are.

Marvin was a member of FFA during his high school years, holding several offices including vice president for two years and president in his senior year. We attended the National Convention in 1954 when he was awarded the American Farmer Degree (of which we're both proud—after all, I provided secretarial service and all the encouragement I could muster). As for personal statistics—we've been married almost six years now, have a daughter who'll soon be five and a husky little two-year-old Future Farmer. We live on a rented 80 acre farm and work an additional 80, doing general farm work. We also assist with the work on Marvin's father's farm of 160 acres. As for hobbies, Marvin's run to the mechanical and he enjoys wood-working, (I have some lovely furniture to prove it). My interests are mostly musical although I love to read, too. These hobbies may not be strictly domestic, nevertheless, we're trying to give our children a well rounded home life to prepare them for school, church, and other outside activities which will soon begin to take up a greater part of their time.

Well, by now you know that I like to talk, but isn't that a woman's prerogative? Seriously though, we want to thank you for a good magazine put out by one of the finest organizations that we know. We're proud to have been a small part of it.

Margery & Marvin Koch

The Editor stands corrected. It was certainly thoughtless of me to overlook the wives.—Ed.

Flushing, Queens, Long Island, N. Y.

We of the New York Newtown FFA Chapter have been wanting to contact you concerning an article to be printed in your magazine, *The National FUTURE FARMER*. At the National Convention I was advised by my state advisor to contact you concerning the matter. The article we wish printed is:

We of the New York Newtown Chapter Future Farmers of America cordially invite all members of the FFA in the Nation, when visiting New York City to contact us and we will be more than happy to give them a guided tour of the city's points of interest. In this way we hope to bring closer relations between our Chapter and the other

AGRICULTURAL CONSERVATION BY FFA MEMBERS

AC acclaims farm youth on their interest in land reclamation!

Pasture renovation is one of the newest methods in modern agriculture. Half colters, welded to the chisels, open up the sod but don't tear it loose. Result—up to 25% more hay per acre has been reported after extensive tests! Tests like this contribute to the interest of young farmers in the renovation of existing acreage. They appreciate the immediate increase in yield and the long-range improvement in land value through conservation.

They appreciate that the conservation of valuable farm equipment—cars, trucks, tractors, power implements and stationary engines—pays off in better fields and better yields. Land is worked . . . crops are planted, harvested and marketed on time!

For best results, follow the manufacturers' recommendations on the upkeep of all farm engines, including the changing of spark plugs. When you do replace them, use AC Hot Tip Spark Plugs that burn away fouling oil and carbon deposits as soon as they form—give faster starting, smoother performance and greater economy throughout a longer lifetime.

Get new AC Hot Tip Spark Plugs for all of your engines from your nearby AC Supplier.

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• • • you'll be proud to have working full time in your community.

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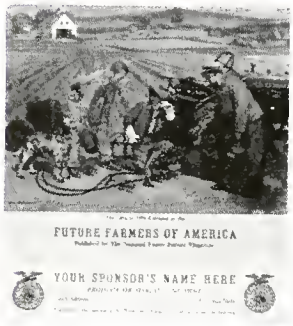
• Have copies of your magazine sent to friends and local businesses.

• The Official FFA Calendar now being published by the National FUTURE FARMER will tell the story of the FFA each day. It's a quality calendar! . . . One you'll be proud to hang.

• Local businessmen like this means of advertising. Contact one today!



Both will hold up the principles and ideals of the FFA among businessmen, school officials and other citizens of your community. They will create a better understanding of your work . . . and add emphasis to your leadership.

For additional information, check and mail coupon below.

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☐ *Please send sample calendars and complete information.*
☐ *Please send magazine subscription forms.*

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chapters of the Nation. We sincerely hope that you will take advantage of this article. When coming please inform me or our advisor, Mr. Levitain, at the high school, 64-01 Main Street, Flushing, Queens, Long Island, New York. Thank you.

Bernard Braun
President

What a cordial thing to do! We predict you get some "takers."—Ed.

Farragut, Iowa

I am a Junior in high school and get very much enjoyment out of your wonderful magazine. You told us, your readers, to write in and tell you the type of magazine articles we liked best. The kind of article I like best is where you explain the achievements and progress of one certain FFA member and what he has accomplished. I would especially like to see more on Sheep and Dairy work, but any other phase of farming is very interesting. Keep up the good work on this magazine and try to get it to a monthly thing, because it is a very useful source of information for all FFA members.

Thanking you for such a wonderful and informative magazine.

Roger D. Ames

Thanks to all of you for the many nice comments on the April-May issue, and for the fine suggestions you have sent us. This is one way that you can help us to better carry out our objective of serving you.—Editor Lano Barron, P. O. Box 29, Alexandria, Virginia.

In Memoriam

Professor Verey G. Martin, Member of The National Board of Trustees of The FFA Foundation, died March 7, 1957 at his home in Starkville, Mississippi. At the time of his death, Professor Martin was head of the agricultural education department at Mississippi State College. He had held this position for 34 years.

Professor Martin was one of the pioneers of Agricultural Education in Mississippi. As Head Teacher Trainer at State College he had an abiding influence on the agriculture teachers of the State.

He was chairman of the American Vocational Associations' Teacher Education Committee, which recently drew up guiding principles for land-grant colleges in the pre-employment training of teachers of agriculture.

Professor Martin will long be remembered, both in his own state and across the nation, for his ability to think clearly and to act wisely.

full of spunk...

but beautifully behaved... the '57 Chevy!

It doesn't just look sweet, smooth and sassy... it is! You get sports car control behind the wheel... a solid, sure-footed feel on the road, smooth and easy response to every command.

When you design sports car handling into a passenger car, then drop in the industry's most advanced, most talked-about V8 engine; you've got a car that's noticeably different from any other on the road. That's the new Chevy! Its pep and easy handling make it fun. Safer, too. It's spacious inside, daring in design outside. But still it's a stickler for tradition, and in the grand Chevrolet manner it's known to be as trouble-free as that totem pole!

Drive a new Chevy, one with the exact power you prefer (h.p. goes up to 245*). With triple-turbine Turboglide, too, the newest and smoothest of all automatic drives (an extra-cost option). Your dealer will gladly arrange it. . . .Chevrolet Division of General Motors, Detroit 2, Michigan.

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**270-h.p. high-performance V8 also available at extra cost. Also Ramjet fuel injection engines with up to 283 h.p.*

The new Bel Air 2-Door Sedan with Body by Fisher—one of 20 new Chevrolets.

How permanent is "temporary"?

YOU STILL PAY THESE "TEMPORARY" TAXES ON TRANSPORTATION

10% tax on passenger fares...

3% tax on freight charges...

You should have relief from the burden of these World War II taxes — now!

During World War II the Federal Government imposed special excise taxes on the passenger fares and freight charges you paid to railroads and other common carrier transportation. One reason for these special taxes was to discourage the use of these transportation facilities in wartime.

World War II is long since over but these taxes go on — and on. You are *still* paying them. On nearly all intercity tickets, they add an extra 10 per cent to the fare you pay. And as goods move through the processes of production and distribution, they add 3 per cent to the freight charges at every stage of the movement.

These burdensome and discriminatory taxes are still discouraging the use of our public transportation systems. And by so doing, these taxes are weakening our public carriers — essential to peacetime commerce and vital to national defense.

ASSOCIATION OF
AMERICAN RAILROADS
WASHINGTON, D. C.

FREE

...for the asking

The booklets listed below are free. To get them, all you have to do is send your name and address (and the names of the bulletins you wish to receive) to The National FUTURE FARMER, P. O. Box 29, Alexandria, Virginia.

IRRIGATION: Here is a 16-page booklet covering many of the factors which you should consider when purchasing a sprinkler system. It's titled *"Buying Profitable Sprinkler Irrigation for Your Farm."* (W. R. Ames Company.)

FARM BUILDINGS: This 24-page booklet gives complete details of recent improvements and developments in the Quonset line of steel buildings for farm use. It's called *"Quonset Buildings for Every Farm Use."* (Stran-Steel Corporation.)

RABBITS: Interested in rabbits? *The Albers Rabbit Family News* is published every four months to advance the rabbit industry. It is a practical and profitable journal for rabbit raisers. (Albers Milling Company.)

INSECTS: This new *Hanson file folder* contains an easy identification insect spray chart. It contains last minute, up-to-date information on how to spray and what chemicals can be used to protect fields from crop-damaging insects. (Hanson Equipment Company.)

ANIMAL CHAIN: Illustrated in full color, this attractive 20-page booklet lists the full line of *Republic Farm and Animal Chain* for all types of animals from household pets to livestock. (Republic Steel.)

SOIL FUMIGATION: This eight page illustrated brochure describes how soil fumigation increases yields of many crops. It's called *"Temporary Soil Sterilant."* (Stauffer Chemical Company.)

DAIRYING: Here's an eight page booklet entitled, *"Mastitis From a Veterinary Practitioner's Viewpoint."* A practicing vet calls upon his experience with dairy herds to advance some ideas about mastitis and its control. (Babson Brothers Company.)

PURINA VISITS

ANOTHER FARMER OF TOMORROW

Handling and showing cattle is second nature to these "Farmers of Tomorrow." Robert Pfluger, 17, (right) has set a fine example for younger brother Larry, 14, and sister Karolyn, 9. These young Texans learned early that good breeding and feeding pay off in the winners' circle and on the ranch.

These young Purina feeders have set their goal:

Show top quality cattle today... raise even better tomorrow

Working with cattle is fun for the Pflugers of Pflugerville, Texas. You can plainly see that from the photograph above.

Robert Pfluger, a high school senior, has shown grand champions in two major Texas livestock shows. Younger brother Larry showed the champion Polled Hereford female at the Texas Polled Hereford Show in Beaumont. Third grader Karolyn now has a cow and calf of her own, and plans to show along with her brothers.

The Pfluger boys are active in school and local youth activities, too. Robert would like to attend Texas Tech and major in animal husbandry. Both boys hope to come back to the ranch and raise purebred cattle.

Purina congratulates these "Farmers of Tomorrow." And wishes many years of successful cattle raising to the Pflugers of Pflugerville, Texas. ■■■■■■

You will find that Purina Dealers everywhere are ready to help you solve your livestock and poultry feeding and management problems. Whether you are feeding for the show ring or for market, remember, Purina will help you produce plenty of meat, milk and eggs—at low cost.

FEED **PURINA**...YOU CAN DEPEND ON THE CHECKERBOARD

Announcing two new

4-Wheel-Drives

at record low prices!

Yours now . . . new full-sized low-tonnage Dodge *Power Giants* . . . only trucks of the low-priced 3 with *both* off-road pull and on-road go!

Here are two new models of the only low-tonnage 4-wheel-drive trucks offered by the low-priced three. They're built to carry a real profit-packed load, with G.V.W.'s to 8,000 pounds . . . yet they're priced right down your alley.

You get the extra dig-in traction of four driving wheels plus the power, payload capacity and exclusive features of a regular Dodge *Power Giant*. Take your choice of body styles—pick-up, stake or Town Wagon—with V-8 or 6 power . . . and you can even enjoy the extra convenience of a *push-button* automatic transmission.*

These Dodge 4-wheel-drive *Power Giants* can go practically anywhere off the road, and with a flick of a lever, head down the highway with 2-wheel-drive ease. Add a few accessories and you've got mobile power to lick almost any farm job that a tractor can do. But find out for yourself. Get the details from your dealer the next time you're in town.

**Available on all low-tonnage and Forward-Control models.*

POWER WHERE YOU NEED IT . . . Power take-off accessories let you pull stumps, dig holes . . . supply power for special farm equipment.

HAUL FULL-SIZED LOADS in your choice of full-sized bodies. Use power accessories to help you load or unload anywhere on your farm.

HIGHWAY GO . . . V-8 or 6, plus off-road traction, means new 4-wheel-drive trucks get your produce from field to market quicker.

DODGE

PowerGiants

Looking Ahead

SMALLER PLANTED CROP ACREAGE

At press time major reductions were in prospect for the spring wheat and rice crops. These reductions will further cut back the acreage planted to food grains already diminished by reduced winter wheat plantings. When the feed grain crop plantings—corn, oats, barley, sorghums—have been completed corn and oats will show moderate and consistent decreases in most states. But these reductions are expected to be offset by increases in sorghum in the Central and Southern Plains and sizeable increases in barley which will count largest in the small grain areas of the Northern Plains and the West. Decreases in total plantings are providing a large acreage for the 1957 Soil Bank.

REMINDER ON ACREAGE RESERVE AGREEMENTS

A civil penalty can result from willfully grazing or harvesting any crop from land in the Acreage Reserve. Or from harvesting acreage in excess of the "acreage permitted for harvest." This "acreage permitted for harvest" would be the total allotment for the crop, less the acreage designated for the Soil Bank Acreage Reserve.

THE MERITS OF IRRIGATED PASTURE

One acre of irrigated pasture can replace more than 7 tons of feed in dairy cow rations. Tests show that an acre of well watered pasture replaced 5.58 tons of silage, 1.34 tons of alfalfa, and 410 pounds of grain. In University of Nebraska experiments, cows on irrigated pasture produced a little more milk per day than cows in dry lot. Grazing rotations of pastures started in the spring when forage was 8 to 10 inches tall. Cows were moved every 8 to 14 days, but the best results were obtained from the shorter grazing periods.

NINE PERCENT LESS WINTER WHEAT FORECAST

The Crop Reporting Board forecasts the winter wheat crop at 669 million bushels based on conditions as of last month. A crop this size would be 9 percent smaller than in 1956 and 22 percent below average. The yield per seeded acre is expected to be 18.2 bushels as compared with 16.5 in 1956 and the average of 15.9.

OUR NEEDS IN 1975

Farmers produced almost 40 percent more last year than in 1940—yet they still have a big production job ahead. USDA projections for 1975 indicate need for a 25-percent increase in total output over 1956. Production of meat animals may need to be 35 percent greater than last year, milk 3 percent more, poultry and eggs will need to expand 35 percent, and crop production by 20 percent.

THINGS TO WATCH

Smaller total livestock slaughter in prospect for this year reflects the smaller pig and calf crops of 1956. The 1956 pig crop was down 6 percent. As a result, slaughter of hogs has been smaller to date than last year and will continue smaller until late in the year.

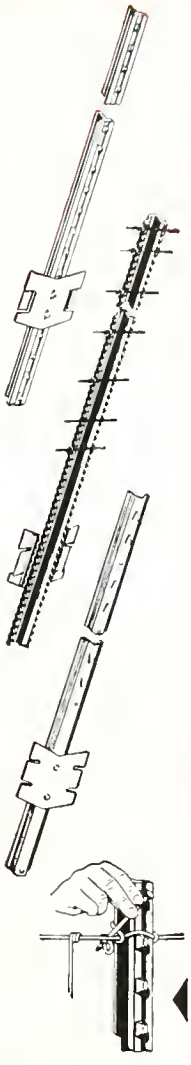
The inventory of cows, and of total cattle, also is now smaller than last year. Consequently, while cattle slaughter may stay about as large this year as last, a reduction is in prospect over the longer future.

The early lamb crop in principal producing states is estimated at 1 percent below last year. California and Texas, where breeding ewe numbers are down, were responsible for most of the drop.

More eggs are on the way. Numbers of hens and pullets on farms are up about 3 percent.

The Post with the Most...

AMERICAN STEEL FENCE POSTS



READ HOW these seven design features of rugged USS American Fence Posts save you work, time, and money—and you'll agree that these are the posts that offer you the most.

1. EASY TO HANDLE—slender, sturdy, made from new, high-strength, high-quality steel.

2. FAST-DRIVING—no post holes to dig. Steel posts pierce the ground readily—can be driven in five minutes or less, either with post driver, by hand sledge or power equipment. Can easily be removed for relocation.

3. ADAPTABLE TO ANY TERRAIN—can be driven in rocky soil, among tree roots, and in many other places where post-hole digging is almost impossible.

4. SELF-ANCHORING—large slit-wing anchor is securely riveted to post . . . packs soil firmly against back and sides of post when driven in ground. Gives your fence a strong backbone of steel.

5. QUICK-FASTENING—all three American Steel Posts—the Studded "T," the "U," and the All-Purpose "U"—speed up fence hanging. The fence attaches in a jiffy, requiring no staples or special tools. The All-Purpose "U" post is self-fastening and has holes for attaching insulators.

6. LONG-LASTING—a heavy, baked-on coat of special steel paint with unusually high preservative properties keeps American Posts in constant service under all kinds of adverse conditions.

7. VERSATILE—USS American Fence Posts are ideal for farm fence, poultry netting, electric fence, barbed wire, or lawn fence.

Five of these easy-to-attach special patented clamps come with every Studded "T" and "U" Steel Post.

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AMERICAN FENCE AND POSTS

UNITED STATES STEEL

NORTH *star of the* WEST

This Foundation award winner is a top farmer in his local area. He is a leader in the FFA and his own community. Can you use his formula for success?

Fred and Betty were the first to erect a new mailbox and FFA identification sign to kick off a state-wide campaign.

COTTON is still "King" with Freddy North, Pacific Region Star Farmer from Eloy, Arizona. He grows 92 acres of it each year and his yield is a whopping 1,326 pounds of lint per acre—considerably higher than the state average of 1,003 pounds per acre and a national average of 417 pounds.

This high yield is a good indication of how successful Freddy has been as a farmer. He owns a 320-acre farm in an area of "big time" agriculture. All the land is not cultivated though because of Arizona's critical water shortage. In addition to the cotton acreage he has 40 acres of wheat and 35 acres of milo maize. The balance of the land is being held in fallow, awaiting the time when the young farmer can drill another deep well to furnish additional water.

Young North doesn't believe a "horse and buggy" agriculture can survive in this modern age. He has established many new and improved practices taught in vocational agriculture. He urged the use of mechanical cotton pickers and instigated an improved irrigation system which resulted in considerable savings. He planted the row crops on a contour and advocated planting cotton to a stand which eliminated chopping and improved the yield.

Now 20, Freddy is married to his high school sweetheart, Betty, and they have a daughter who was a year old in May. There are many indications of their youthful energy and hard work on the farm. The farm has taken on a new life. Improvements in the layout of the fields, and the irrigation system are especially noticeable. Then, too, Betty's work in their home has added to the farm's appearance.

As owner, Freddy has complete managerial responsibility for his farm and handles all his own financing, production, and marketing. His father farms nearby. They comprise a good working team, with each respecting the other's judgment and ability.

Freddy gives much of the credit for his success to his father and to his FFA advisor, Dean Bennett. At the same time, his dad gives Freddy credit for establishing, on the two farms, many of the new and approved practices taught in vocational agriculture.

Freddy owns most of the equipment he needs to operate his farm but some is shared with his dad. The use of this equipment is interchanged on the two independently owned farms. Since each individual owns equipment of equal value, there is no charge to either person.

As a Freshman, Freddy started with 10 acres of cotton from which he realized a profit of $1,286. Each year his

When necessary, Fred uses his credit to buy needed equipment. He owns most of the machinery used on his acreage.

Fred and his father make a good team. They work together but the two farms are owned and operated independently.

Since his farm is located in a dry area of Arizona, Fred must irrigate to get the moisture needed on his cotton land.

earnings were plowed back into his program. But when time came to make his big step, he had to rely on his credit.

In 1954, Freddy was able to buy a local landowner's $21,000 equity in a farm for $5,000. He borrowed $15,000 from his father on a personal note. The $10,000 left after the down payment was applied on the mortgage leaving a balance due on the farm of $30,000.

Later a new tractor was purchased with about a third down and the balance in two years. Most of this has now been paid.

The young farmer has grossed over $56,000 from farming during his five years as an FFA member. His labor income for this period was about $26,000.

Freddy became a member of the Eloy FFA Chapter when it was chartered five years ago. He has served the Arizona FFA Association as State president and reporter. A "go getter" at this too, he traveled 12,148 miles and spent 66 days working in the interest of FFA while State president.

Freddy has a long and distinguished record of service in the FFA, having served as chairman of the Parliamentary Procedure Team which placed first in his district. He also was district winner in public speaking and has served as a delegate to the National FFA Convention where he was chairman of the National Magazine Committee. In addition to his State FFA offices, he has served as sentinel and president of his local Chapter. In high school, he was a member of the student council and National Honor Society, was valedictorian and served as president of his class.

Both Freddy and Betty are members of the First Baptist Church in Eloy. Freddy teaches the Young Married Class and is president of the Men's Brotherhood. He is also a member of the Church Council. He belongs to the Eloy Soil Conservation District and is a member of the Junior Chamber of Commerce.

When we look at Freddy's formula for success in farming, several things become apparent. He was able to get credit when he needed it and in a large amount. He farms a sizeable acreage to bring his income up to a desired level. By using irrigation, he is assured a water supply for his crops —when they need it. And certainly not least in importance by any means, mechanization was introduced to enable him to handle his large acreage.

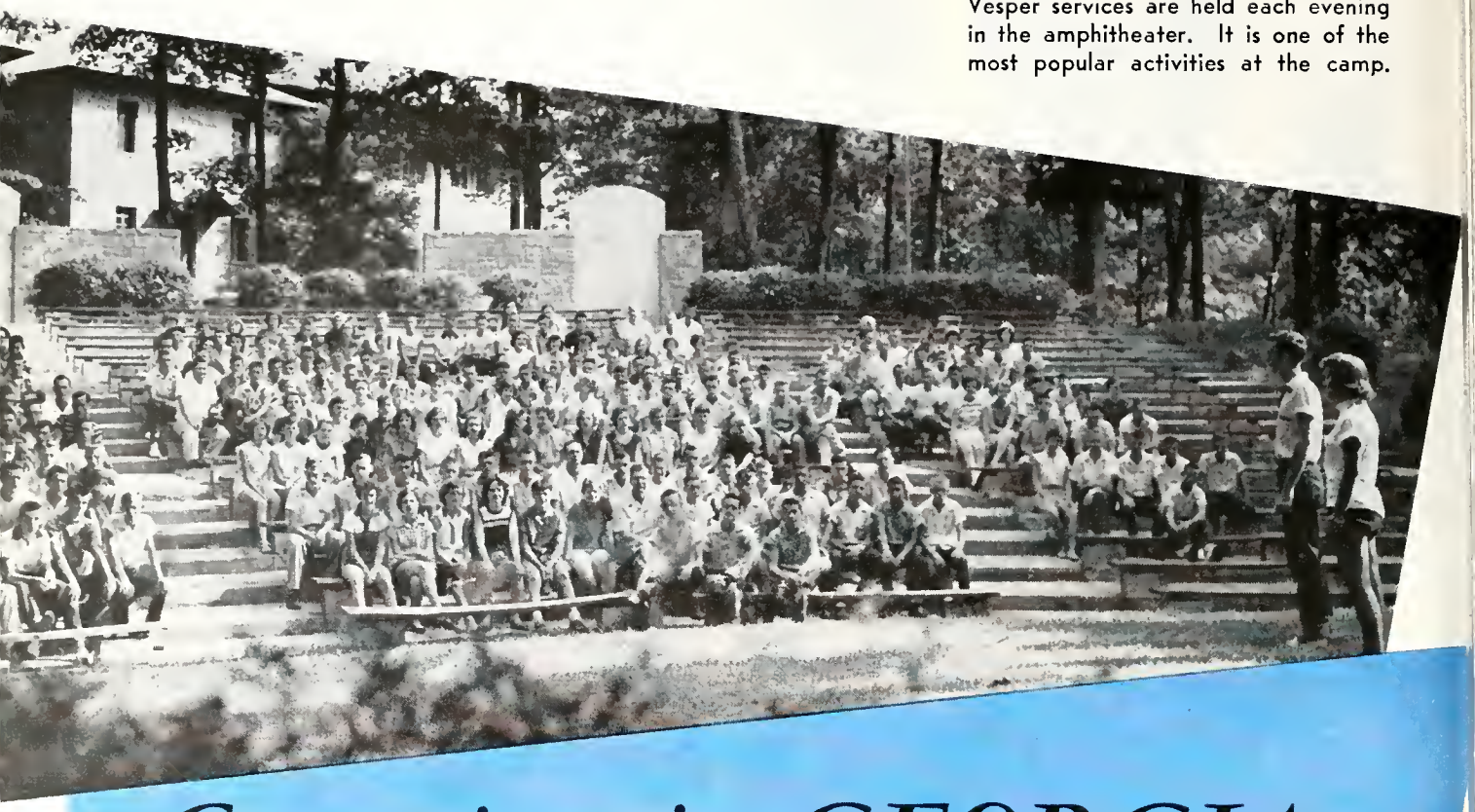
Then, too, the North's farm life has been made more wholesome by the way they have become a part of community life taking part in many community activities.

Would this same formula work for you?

◆◆◆

Family life means a lot to Fred. At left he takes a turn at feeding his daughter while wife Betty looks on. Fred is married to his high school sweetheart.

Young North and his father check on pump output. He is not able to farm his entire 320 acres because of the critical water shortage in his particular area.



Vesper services are held each evening in the amphitheater. It is one of the most popular activities at the camp.

Camptime in GEORGIA

By Albert Morris

It is fun galore for 400 Future Farmers and Future Homemakers who arrive at camp on Monday for a week-long stay.

SUMMER IS CAMP TIME for Future Farmers and Future Homemakers in Georgia. Before school bells ring again in September, approximately 5,000 of them will spend a week at the State FFA-FHA Camp.

The quiet and peace of this picturesque spot fifty miles south of Atlanta is broken each Monday afternoon during the summer by the arrival of a new group. Usually, there are about 400, half boys and half girls. Accompanied by their advisors, they come from schools all across the State to take part in an organized leadership training and recreational program that places emphasis on well-rounded development of the individual.

Campers get to know each other quickly and warm to the camp spirit dancing the Virginia Reel, Glow Worm, Skip to My Lou, Texas Star, and other folk games around the spacious floor of Mobley Hall. This big granite building has an auditorium that will seat 700 persons. Timid girls and bashful boys lose their shyness, mixing and mingling, always meeting new friends as they "swap their partners" on the dance floor or file into the dining hall—first a girl, then a boy. Everybody participates—even the teachers. Saturday morning comes all too soon.

Camp also has its serious side. The young people elect a council which meets daily to plan activities and assign responsibilities. There is experience in committee work. Each day at dusk, there is a vesper service in the amphitheater.

The theater, built as a memorial to FFA members and advisors who were killed in World War II, is nestled in a grove of towering oaks that grow along the banks of Lake Jackson. It provides an ideal setting for spiritual meditation.

The camp itself is on a 352-acre tract with the buildings located on a hillside overlooking the lake. There is a farm operation where Future Farmers may observe pasture improvement, woodland management, use of farm machinery or study the herd of Hereford cattle.

The center of camp activities is Mobley Hall shown at right. This hall is named for Dr. M. D. Mobley, former FFA Advisor.

Meal time is also time for making new friends. Campers file into the dining hall, first a girl and then a boy. With girls present, boys use better manners and eat less.

Even at camp many Future Farmers don't completely get away from the farm. Some groups take time to look at camp cattle, managed woodlands, or improved pastures.

There is abundant opportunity for nature study.

Under the direction of T. D. Brown, FFA executive secretary, the camp program moves swiftly and smoothly. Swimming enthusiasts delight in the three-acre lake that is fed by spring waters. Those who like to work with their hands practice their hobbies in the craft shop. Softball tournaments are played on two diamonds atop the hill around which the camp is built. Talent programs are a nightly feature. There are shuffleboard and badminton tournaments, horseshoes, and indoor games. All of these activities are joint except softball.

For those who don't know the folk games, there is opportunity to learn during the daylight hours. There is something for everyone to do all of the time.

This kind of program has been underway at the FFA-FHA Camp for ten years. How did it get started?

Actually, the camp property was bought and developed by Future Farmers, beginning in 1937. Granite for the three central buildings — Mobley Hall, the infirmary and dining hall—was quarried on the property and some timber was sawed. The construction was done by National Youth Administration students. Most of these were former FFA members. For them the camp was a resident training project.

Through activities that have ranged from sponsoring political rallies to collecting pine cones for seed, chapters have earned more than $80,000 to invest in the camp. This investment has made possible what is sometimes called a "million dollar camp."

Future Farmers used the facilities exclusively until 1947. That year joint camping was "tested" for just one week. It proved so successful and popular that by 1950 the entire summer program was on a joint basis. Appropriately, FFA and FHA were "going steady."

Benefits of joint camp are many. Leaders feel that probably the greatest is the opportunity it affords teen-agers to make social adjustments in a wholesome atmosphere. It is a laboratory for personality development. It teaches self-reliance, develops health and character.

Whether the boys will admit it, having the girls around makes a difference in the way they act. Mr. Brown says boys now eat less, dress neater, and are more conscious about manners. The girls take a second look into the mirror, too.

Some people say the camp really isn't a camp at all. They prefer to call it a youth center because so much practical education is woven into the daily activities.

One problem has come out of joint camp: not enough housing!

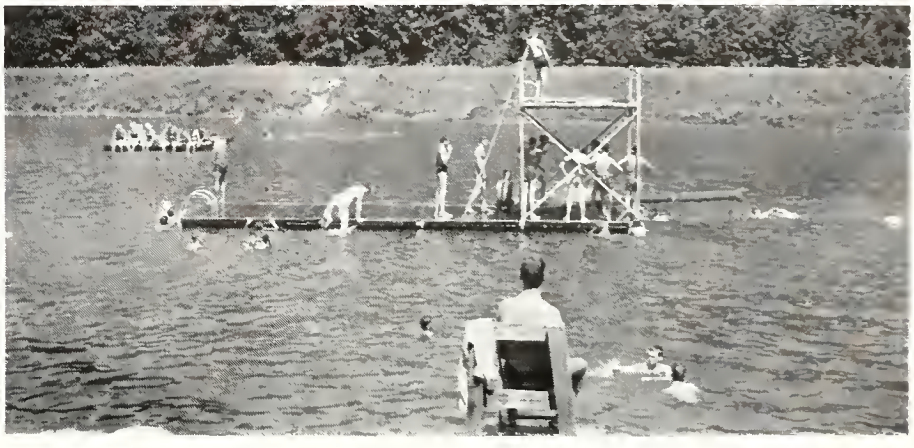
FHA recognized this. Several years ago the girls determined to build a cottage. They set out to earn money by baby-sitting, running errands, washing cars, and doing other chores. Their earnings mounted to $25,000. This was matched by the Governor (Herman Talmadge), and three new cottages soon were completed. The FFA camp officially became the State FFA-FHA Camp in 1956.

Advisory committees for these two organizations currently are sponsoring further improvement and expansion of camp facilities. Their goal is to obtain $200,000 through public subscription. Chairman for this movement is W. R. Bowdoin. He was Georgia's first FFA president. Now he is senior vice president of one of the state's larger banks (The Trust Company of Georgia).

"This program is building citizens for the future," he says. "We simply are giving the public a chance to invest."

That is the way businessmen look at Georgia's FFA-FHA Camp and its program. ◆◆◆

Swimming is enjoyed by the campers in a three-acre lake fed by springs. All activities are joint except softball. Then the boys play and the girls cheer.



A Director at 17

By Earl Schweikhard

TO BE ELECTED a director of a state breeders organization is an honor for any livestock man. But it was a particularly big event in the life of a 17-year-old Future Farmer from Oklahoma.

A. J. Rexroat, a member of the Aline Chapter, was only 17 when elected to this high post in the Oklahoma Sheep Breeders Association. His older friends in the association showed respect for his ability both as a leader and as a sheep breeder when they chose him for the job.

Since that time, A. J. has received the Enid *News-Eagle* award as the outstanding Future Farmer in northwest Oklahoma, and was elected northwest district vice president of the Oklahoma FFA Association.

His success as a sheep breeder has accounted for much of his outstanding record, and although he is not a larger breeder, he is doing much to better the sheep business in Oklahoma. Now 18, young Rexroat owns a flock of 47 registered Dorset sheep, which he intends to maintain as a foundation flock. And they will help pay for his college education at Oklahoma A&M College.

A. J. started his flock with three ewes, given him by his parents in 1949. All profits have gone into the flock to build it to its present size. He has been careful to build it with good stock for maximum profits.

As a result, he has shown many champion lambs at county, district, and state shows. He had the first place Dorset wether lamb in the American Royal in 1954, the champion Dorset lamb in three state shows, and captured the champion Dorset award in his county fair every year since 1951.

A. J. uses a combination of wheat pasture, oats, Sudan, and native pasture to get the greatest possible gain from his sheep. His lambing season is planned from January through March, with only a few fall lambs, mostly from first-lamb ewes. The ewes run on wheat pasture from November through March. After three or four days in the lot with their mothers, newly-born lambs are also turned out on the wheat.

The ewes receive a ration of oats and a 16 percent sweet feed as soon as they lamb and are fed the ration for two to three months.

A strong believer in creep feeding, A. J. starts the lambs on feed when they are from two weeks to a month old. They are fed oats until they are three to four months old, when they are eased off the creep and started on hand feeding at morning and night.

A. J. has kept accurate records on his lambs and found they gain from .35 to .51 pounds per day on an average of one-fourth to one-third gallons of feed each. After starting hand feeding, the lambs are fed an increasing ration to about one gallon per day in October. Lambs run with the ewes on pasture until fall, when the ram lambs are taken out to be fed and pastured separately.

From wheat pasture, A. J. moves his flock to rye or vetch, depending on the crop available, and then on the Sudan pasture in June. Only one year has he failed to have plenty of green pasture, and then he kept the sheep on native pasture, supplementing with grain.

When the flock goes back to wheat pasture in the fall, A. J. takes his ewe lambs off grain and begins to look them over carefully for replacements to his flock. He begins selling some lambs in December at the Oklahoma Sheep Breeders Association sale and to private buyers. At the same time, he picks replacements for his flock on the basis of how well the mother has performed, type of the lamb, and weight records. He also watches closely how the ram prospects he has saved are developing.

The four to six lambs selected earlier in the year for spring showing stay on a grain ration and are in good shape "because they stay pretty hard all of the time," as A. J. explains. Later, he will feed them a small amount of commercial mixed feed but depends on the constant oats ration to bring them gradually into shape. Rams saved from the year's crop are sold in the spring at county and state sheep breeders association sales.

A. J. can support his flock on 15 to 20 acres of wheat pasture, rotating them some, and on 10 to 15 acres of vetch, about 15 acres of sudan, and when necessary, on 15 acres of native pasture. The native pasture is mostly Buffalo and bluestem grasses.

A. J.'s losses from disease or other causes are negligible. The sheep are penned at night and are free to use a well-protected barn. During lambing season, he sets up five lambing pens in the barn and pens his ewes at least the night before they lamb. In cold weather, he heats each pen with a 250-watt heat lamp. He doctors the navel of each new-born lamb and keeps a constant vigil with the ewes during lambing season.

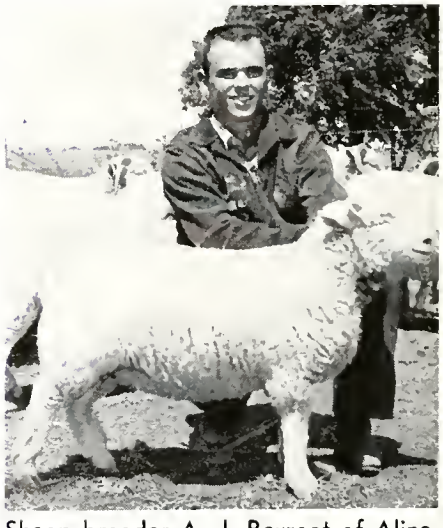
Lambs are docked and castrated when three to four days old, or if they appear weak, when they are seven days old. For the few lambs dropped in the summer, he gives tetanus and anti-toxin shots.

When the lambs are three to four months old he vaccinates them for overeating disease, and then at five to six months of age for hemorrhagic, black leg, and malignant edema. He follows with repeat doses every year.

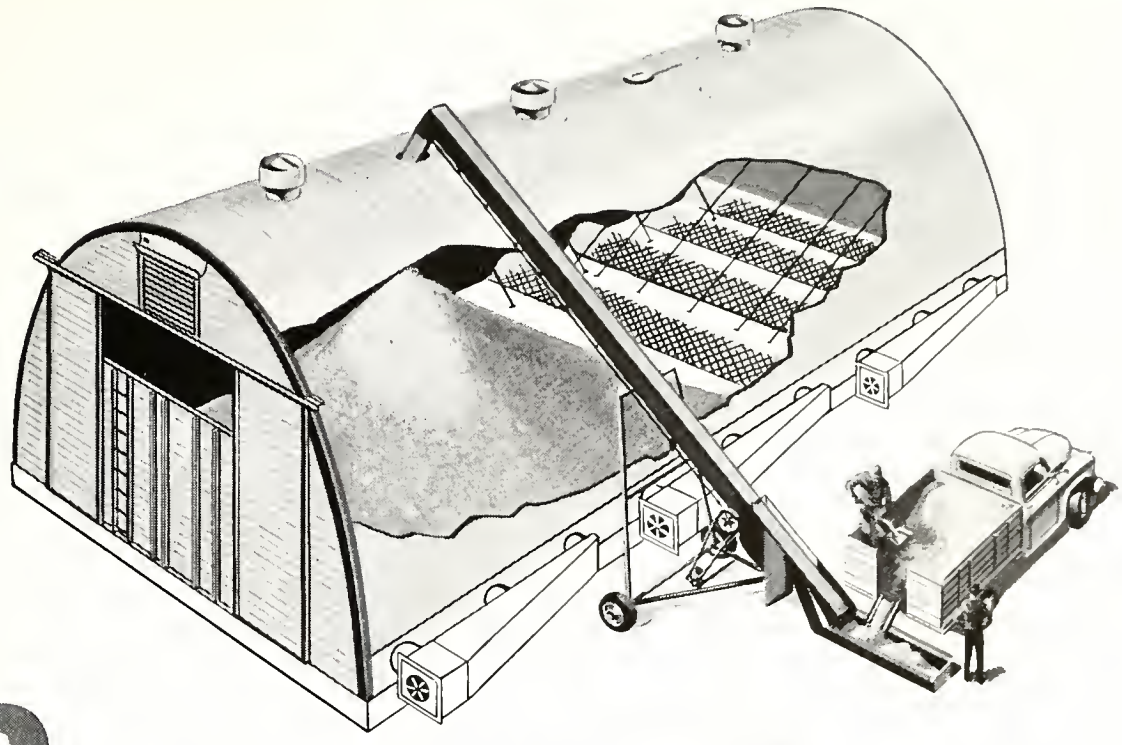
A. J. rents 80 acres of land, but lives on the 240-acre home farm with his parents.

His flock is now valued at about $3,000, and he has received about that much income from the sheep during the past four years. In addition to his state post with the breeders association, A. J. is a member of the Continental Dorset Breeders Association. A proven leader in his FFA chapter, A. J. has served as treasurer, secretary, and president.

With the aid of his father, A. J. intends to keep his Dorset flock intact while in college, spending week ends and summer months at home to care for them. They are the foundation of his future in agriculture.



Sheep breeder A. J. Rexroat of Aline, Oklahoma, with one of his spring show lambs. Sheep will help pay his way through college at Oklahoma A. and M.



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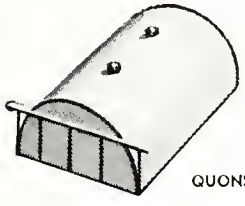

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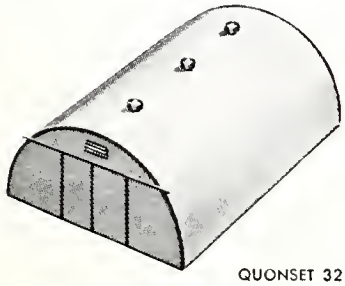

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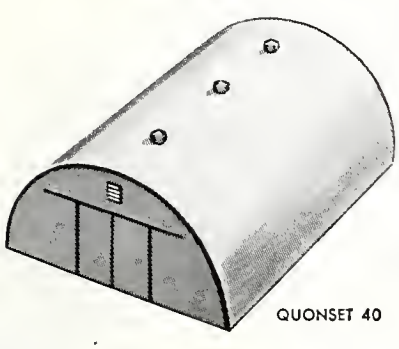

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57-SS-22D 12

Photo Roundup

Here is an unusual activity—but a good one for an FFA chapter. Three members of the gold emblem Oberlin Chapter in Kansas raise the U. S. flag at school athletic events. Local Advisor Lloyd Moody says people have made many favorable comments. Could your chapter do this?

Central, North Carolina, officers award honorary degree to Marshall "Carbine" Williams. A local farmer, he's known nationally as a gunsmith and through a movie of his life.

Louisiana's Delhi Chapter awards a plaque annually to an outstanding member. Richard Dearman, left receives the award this year from Donnie Wilbrun, past state president.

When a survey showed 15 electrical appliances on the average farm, Future Farmers at Azle, Texas, got busy studying electricity. In photo, this group studies a wiring board.

A Bridgeport, Alabama, member shows the type of mailbox they build for $1.25. Many chapters are using this project.

The Wapato Chapter in Washington presented $125 check to the American Red Cross for its Hungarian relief.

Ohio President John Poppe with the FFA queen's court at new Ohio Youth Center used first by FFA in 1956.

Dr. Stanley Gessel, Associate Professor in forest soils, University of Washington College of Forestry and Dr. Eugene Steinbrenner, (right), forest soil research specialist, Weyerhaeuser Timber Company. Above, they examine compacted soil to establish its ability to grow new tree crops. Both are engaged in soils research programs intended to improve timberland productivity.

improving the productivity of forestlands by soil research...

Through forestry research, private owners of tree farms work to improve future tree crops...and to assure an endless supply of wood for lumber and other forest products.

People in the business of growing timber as a crop depend on the ability of trees to reproduce themselves and on the productive capacity of forest soil. One of this company's long-range objectives is to both perpetuate and improve the tree-growing power of its forestlands through knowledge gained by a continuous program of soil research.

Here in the Pacific Northwest, our forest soil research specialists are acquiring basic information on growth requirements of individual tree species and relating it to the ability of different soil types to provide proper moisture, nutrition and aeration. Such knowledge can guide future reforestation practices on company lands by indicating tree species best suited for each site and soil condition. At our forestry research center, soils work is being correlated with other research activities...such as seedling establishment and growth, forest genetics and the improvement of timber stands. The end result should be better trees for tomorrow.

Organized research is one of many forest management practices used by tree farmers to keep their timberlands productive. *Write us, Box C, Tacoma, Wash., for an informative free booklet,* ***Promise of the Trees.***

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New Machinery Preview

New, increased bin capacity and convenient operating features are claimed for this six-foot all-crop harvester by Allis-Chalmers. The 25-bushel grain bin is unloaded in 90 seconds without leaving the tractor seat. Auger-type discharge elevator reaches into high trucks and wagons.

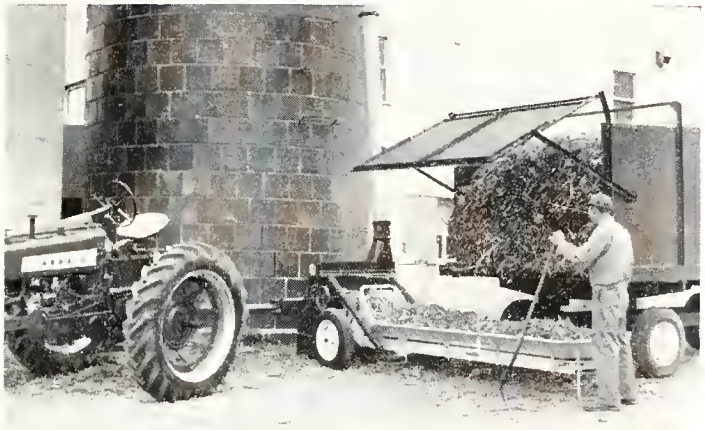
THE LATEST in farm equipment offered by machinery manufacturers is shown here and on the following page. Emphasis has been placed on machines that harvest feed crops, because of the trend towards livestock farming followed by Future Farmers. Most are designed for faster, easier operation, and more efficiency—all are important items for today's farmer.

For the farmer who wants to do a maximum of work with a minimum of labor, this Caterpillar D8 Tractor pulls a Graham-Hoeme cultivator on summer fallow operations. The total width of the entire plowing operation is 105 feet.

The New Case 133 Baler will make 14-by-18-inch bales at the rate of up to six tons per hour. It comes in two-tone color arrangement with wheel fenders to protect the baler during transport. According to the makers, it is designed for the farmer who bales and feeds his own hay.

Up to ten tons of baled hay per hour is the capacity of this engine-driven model of the Ford 250 baler. The makers say it is an economically priced, twine-tie baler that enables the farmer to do his haying at the opportune time and provides easy to handle, securely tied bales.

Now you can cut and condition hay in one fast trip over the field. New hookup-and-drive equipment adapts the John Deere hay conditioner and mower. As a result, one man with one tractor cuts and conditions hay at the same time. Conditioning hay cuts curing time in half. It makes better hay—locks in more vitamins and carotene.



The new McCormick universal blowers just announced by International Harvester can handle up to 45 tons of corn silage or 35 tons of grass silage an hour. They're made for three-plow sized tractors. Can be used with belt pully-PTO drive combination or with belt pulley alone. Available with 12-foot conveyor or collapsible hopper.

This Uni-Balor is a product of Minneapolis-Moline. It's shown on the Uni-Tractor. This one basic tractor unit provides a single frame and carrier for six distinct, interchangeable harvesting units. The baler shown has a four-foot pick-up, straight through baling with no restrictive corners, and also has a new pivoting packer and plunger.

At left is a smooth-roll mower-crusher that conditions hay so that it dries in almost half the time and retains more of its food value. The New Holland Machine Company's product rolls across fields at speeds up to seven m.p.h. Two operations give farmers two jobs in one, the company says, and gets drying off to a faster start.

New Machinery Preview

continued

This new semi-mounted rake holds shattering to a minimum says The Oliver Corporation, the manufacturer. It has a direct cross-feed action which moves the hay directly crossways to the line of motion and moves it the shortest possible distance from the mower swath to the windrow.

A front mounted wood clipper demonstrates how effectively tree prunings can be reduced to a moisture saving wood chip mulch in orchards. This work can be done anywhere you can drive a tractor. It is manufactured by the Fitchburg Engineering Corporation, Fitchburg, Massachusetts.

This new combine by Massey-Harris has combined more than 110 different crops, says the manufacturer. It comes in both six- and seven-foot size, and in PTO or pull type, air-cooled engine drive models. The makers say that it is a versatile assistant on farms growing special crops.

At left is a new pull-type parallel bar rake, the latest edition to hay harvesting equipment offered by the New Idea Farm Equipment Company. The manufacturer claims its operating speed of up to eight m.p.h. cuts raking time in half as compared to conventional rakes. Fits all tractors.

HE BUILT A UNIQUE SMOKEHOUSE!

Texaco Consignee R. J. Davis admires the ingenious smokehouse constructed by Rod Breaux, who farms 850 acres near Welsh, La. He simply put together an abandoned water tank, a door from an old house, and an empty Texaco oil drum to contain the wood fire. Cost practically nothing, and turns out delicious smoked meats!

Mr. Breaux is the inventor of several labor-saving devices to make operation of his big farm easier and more economical.

Mr. Davis has been a Texaco Consignee for 39 years, and has a steady customer in Mr. Breaux, who has found that *it pays to farm with Texaco products.*

TEXACO FIRE CHIEF GASOLINE, with superior power for low-cost operation is supplied to farmers around Orangeburg, S. C., by Texaco Consignee G. P. Gilbert, shown here with L. L. Griffith of the Caw Caw plantation and B. A. Gilbert. The Gilbert brothers are well liked for their dependable, neighborly deliveries.

MARFAK LUBRICANT is delivered regularly by Texaco Consignee Vance Hutchison to Johnnie Walden, farmer of Enterprise, Ala. Mr. Walden agrees that Marfak is superior because it won't drip out, wash out, dry out or cake up – adds to the life of farm machinery and prevents repair bills. Marfak lubricated bearings can *take* it!

FOR 27 YEARS Texaco Consignee J. Ben Chase has been supplying the 2600-acre Goldman Plantation, Goldman, La., with Texaco products exclusively. H. T. Goldman, Jr. (right) has found that Advanced Custom-Made Havoline Motor Oil wear-proofs truck and tractor engines – gives added power and longer engine life.

IN TOWN OR ON THE HIGHWAY – in all 48 states – there are Texaco Dealers with top-octane Texaco Sky Chief gasoline, supercharged with Petrox, for maximum power and to cut engine wear, and Texaco Fire Chief gasoline at the *regular* price, both 100% *Climate-Controlled* . . . Havoline Motor Oil and Marfak lubricant.

ON FARM AND HIGHWAY IT PAYS TO USE

TEXACO

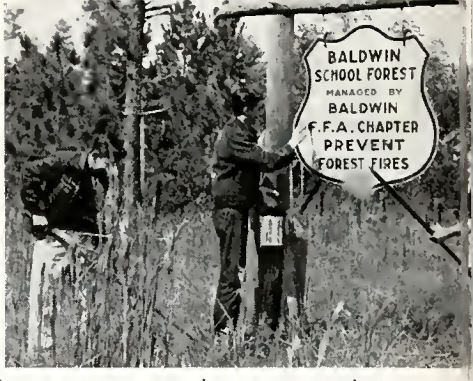
PRODUCTS

DIVISION OFFICES: Atlanta, Ga.; Boston 16, Mass.; Buffalo 9, N. Y.; Butte, Mont.; Chicago 4, Ill.; Dallas 2, Tex.; Denver 3, Colo.; Houston 2, Tex.; Indianapolis 1, Ind.; Los Angeles 15, Calif.; Minneapolis 3, Minn.; New Orleans 16, La.; New York 17, N. Y.; Norfolk 2, Va.; Seattle 1, Wash.

Texaco Products are also distributed in Canada, Latin America, and Africa.

THE TEXAS COMPANY

Baldwin *Bulldozer* Boys



Officers spruce up the sign on their "showroom farm" site on Highway 301.

By Fred Miller

THE BALDWIN, FLORIDA Future Farmers have carried out an amazing project wherein they purchased and reconditioned and now operate their own bulldozer for the purpose of demonstrating to the passing public the proper utilization of a given tract of land.

With their own heavy construction equipment and their own hands they have transformed an unsightly "borrow pit" that once served as the town garbage dump into a shimmering acre fish pond. They have cleared out wide fire lanes around the farm boundaries and they are still in the process of clearing, stumping, and grading the area that will be put into permanent pasture, row crops, and a small pine nursery. Some fields, however, have already been cleared and planted to bahai grass for the Chapter's Angus herd.

An adventure in bulldozing seemed to be in the cards from the very day the Baldwin Chapter took over their land in 1953 on a long term lease from the State. Chapter leaders promptly sought the assistance of the Soil Conservation Service in drawing up a soil capability map and a farm plan. It was decided that 110 acres of low land which had a heavy growth of young pines were to be set aside as the chapter woodlot. Permanent pastures, a small row crop plot, and a tree nursery would be wrested from the remaining 35 acres of cut-over timberland which had better soil and better drainage.

Particularly irritating to the young farm planners was the garbage littered "borrow pit" situated along the highway frontage in the area designated for pasture and farm purposes. However, they hit upon an ingenious scheme that would not only clean up the unsightly garbage problem but would also properly utilize the excavation area: they would dig the pit deeper to form a fish pond and bury the litter in the banks.

Realizing the cost of the land clearing and excavation work would be prohibitive if contracted the Baldwin youth were determined to buy a bulldozer and do the work themselves. Going ahead with fencing and forestry work on the Chapter plot, the Baldwin FFA relentlessly checked heavy equipment dealers for miles around. After many months' search they borrowed $650 from the bank to buy a battered HD-7 which they felt they could put into serviceable condition in the school shop.

Although he had encouraged members to carry out their bulldozer project, Bob Jones, Chapter advisor, had no previous experience with heavy equipment. "I just got an operator's manual and tried to stay a page ahead of the boys," Jones recalls with a smile.

The manual became a greasy, dog-eared copy as Jones supervised the reconditioning of the 'dozer during the spring of 1955. Pitching in enthusiastically, the FFA members put in more than 500 man hours in the shop readying the giant 7-ton machine for action. As the 'dozer had been modified for use by a standing driver, the youths had to relocate the fuel tank, mount a seat, and reconvert the controls for seated operation. They rebuilt and relocated the battery box.

A used blade was picked up for $50 and the Chapter invested another $300 in a power control unit for the cable-lift rig. They practically built their own A-frame and took out the 'dozer springs and put in a solid axle to accommodate the A-frame mounting. Many more hours were spent in welding, in tightening and repairing the tracks, and in mounting the blade and power unit.

When the 'dozer was in workable shape, some time was devoted to a study of diesel engines and to operational procedure aboard the metal monster. The lads found it hard to accept the fact that their powerful engine possessed only three cylinders. However, most of them soon learned to operate the machine although steering a bulldozer by means of clutches and foot brakes is a far cry from driving a car or a conventional wheel-type tractor.

John Higginbotham, a quiet young man who still maintains his FFA membership though he has since graduated from school, proved to be the most adept operator and he shouldered the responsibility for 'dozing out' thousands of yards of dirt to construct the fish pond. However, the whole Chapter, under Soil Conservation Service supervision, surveyed and grade-staked the pond area—and many of the members spelled John in relief as the digging was carried out.

Land clearing operations have been carried out sporadically since the pond construction, but the Chapter is now pushing to complete the work for which they'll need the 'dozer. They feel that their two-year ownership of the machine has been valuable. Many of them have gained confidence in their ability to operate and repair heavy equipment, and all of them have gained practical knowledge of diesel engines. (To arouse their interest in diesel engines, Jones sends Green Hands to "check the spark-plugs in the bulldozer" and promptly hands them an instruction book when the harried youngsters come in demanding to know "how the blame things operate without an ignition system?")

"The bank loan has been repaid and we own the bulldozer free and clear," explains chapter treasurer Harry Bell, "so when we finish all the necessary bulldozing on the farm, we can sell the machine and get our money back."

They might, in fact, make a profit. Advisor Jones feels that the 'dozer is now worth $1,500 and the chapter has received one unsolicited cash bid of $1,000.

Anybody else want to make an offer?

◆◆◆

The Chapter's reconditioned bulldozer has been used on numerous jobs from clearing land to grading fish ponds.

NEW Golden Anniversary INTERNATIONALS

New A-Line models range from Pickups through 33,000 lbs. GVW Six-Wheelers. Other INTERNATIONAL Trucks, to 96,000 lbs. GVW, round out world's most complete truck line.

NEW ACTION-STYLING! MORE USABLE POWER! BUILT TO COST LEAST TO OWN!

The great new Golden Anniversary INTERNATIONAL Farm Trucks are at your dealer's *now*.

They're *Action-Styled* with new, low silhouette, wider cabs for greatest driving and riding comfort.

They feature *new long-life, quiet engines* with more *usable* power—including the most powerful "six" available in its field.

Yes, here are the farm trucks that—more than ever before—are built to cost *least* to own!

INTERNATIONAL HARVESTER COMPANY • CHICAGO

New Golden Jubilee Pickup! Longest body in its class! All Golden Anniversary Pickups feature the widest cabs, biggest Sweep-Around windshields and more *usable* power.

New Stakes, Platforms! Exclusive new cab mountings, new brakes, new steering. New cab-forward models feature lower height than ever, provide maximum maneuverability.

New Travelall®! More leg and head room, lower overall height and bigger glass area than *any* comparable vehicle. Extra low loading height. Carries eight people. Third door standard.

50 YEARS OF TRUCK QUALITY 1907 1957 INTERNATIONAL TRUCKS

Motor Trucks • Crawler Tractors
Construction Equipment • McCormick® Farm Equipment and Farmall® Tractors

As the FFA Story Unfolds

. . . nation by nation young people join in the spread of fellowship and goodwill as they develop the FFA spirit of living to serve

At top, Far East exchangees during Hawaiian stop. From left, C. R. Ferdun, Hawaiian FFA Advisor, Dunham, Tenney, Kurihara, Shishido.

FFJ President Kurihara visited FFA chapters and state associations. He's shown in Minnesota with President Dale Sauer and Mel Fahning.

Third photo shows Dunham addressing FFJ members during their National Convention in Tokyo. Dr. Tenney, shown on stage, also spoke.

Lower photo shows British Young Farmers who last visited U. S. under the exchange program. They carried the FFA spirit back to England.

JAPAN

To promote good will in the Far East, the Future Farmers of America and the Future Farmers of Japan exchanged visits of two top leaders from each organization. Representing the FFA in Japan were Dan Dunham, past national FFA president, and Dr. A. W. Tenney, national FFA executive secretary. They traveled about 5,000 miles inside Japan making friends for the FFA.

Dunham and Tenney addressed some 10,000 students, held community round-table discussions, conferred with FFJ chapters, and visited farm families during the tour. Their experiences included addressing 3,000 young men at the National FFJ Convention in Tokyo. Throughout the nation the Japanese showed high esteem for Americans and the FFA, the visitors reported.

Accompanying Dunham and Tenney to Japan were Takaaki Kurihara, national president of the FFJ, and Hideto Shishido, assistant secretary-general of the FFJ. They had completed a month's visit in the United States.

The exchange was carried out in cooperation with the International Educational Exchange Service of the U. S. Department of State.

GREAT BRITAIN

Stories about the FFA are carried to England and Wales each year by four outstanding members of the FFA who spend three months there as guests of the National Federation of Young Farmers' Clubs of Great Britain. At the same time, four members of their organization come to this country as guests of the FFA.

Representing FFA abroad this year will be Allen Colebank, West Virginia; Jerry Tlucek, Idaho; Lemmy Wilson, Tennessee; and Howard Poulson, Wisconsin. They will sail from New York City on June 5, on the Queen Mary, and will return from Southhampton on the Queen Elizabeth on September 5. Part of their time will be spent actually living on British farms but they will also take time out for some sight-seeing, attending ag fairs, and other agricultural meetings.

The four members of the National Federation of Young Farmers' Clubs will sail from Britain on the Britannic on May 23, and will return home in October. Most of their time will be spent in the host states of Tennessee, Idaho, West Virginia, and Wisconsin.

FIRE!

But this **BUTLER** building didn't burn

...it's fire-safe!

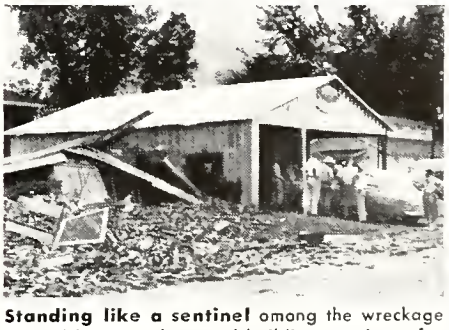
Time was when a burning barn was written off by its owner as a total loss—almost before the flames were well under way.

Not any more. Not since Butler began making metal farm buildings. Built entirely of metal, there's nothing in a Butler building to start a fire . . . nothing to feed a fire.

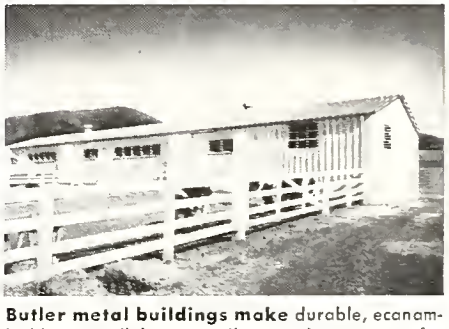
In roaring infernos, they have shielded their contents — with only a few dollars' worth of damage to easily replaceable covering panels.

All-metal construction not only gives fire protection, but provides maximum protection from lightning, tornados and explosions. Ask your nearest Butler Builder for the whole story.

Undamaged by adjacent fire, this Butler metal building continues to provide efficient shelter for livestock and machinery. Built entirely of metal, there's nothing to start or feed a fire.



Standing like a sentinel among the wreckage around it is a Butler metal building, survivor of a tornado that leveled an adjacent "permanent" brick and masonry structure.



Butler metal buildings make durable, economical barns, milk houses, milking parlors, storage for feeds, fertilizer and grain, garages, machinery storage and repair shops.

Ask your Butler Builder about Butler fire-safety

BUTLER® STEEL PRODUCTS

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Manufacturers of Steel Buildings • Oil Equipment • Farm Equipment • Dry Cleaners Equipment • Outdoor Advertising Equipment • Special Products

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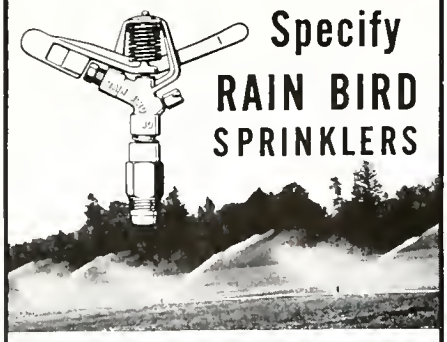
For TOPS IN CROPS
Specify
RAIN BIRD
SPRINKLERS



A sprinkler without the Rain Bird name just isn't the same, for only Rain Birds have all the advantages that have made them world famous.

There's a Rain Bird designed for your specific irrigation needs. Every Rain Bird sprinkler advancement has been field-tested... and in the field, Rain Birds never have been bested!

For top yields... top quality... specify Rain Bird! See your dealer today, or write for helpful literature.

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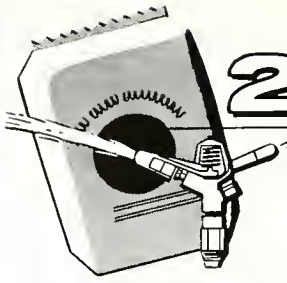

25+25=100

AS A FARMER of the future, you have no doubt considered irrigation. Or maybe you are using it now. In either case, you have learned that the first steps are to find a dependable source of water, plan a system to fit the farm, and buy the equipment. But that is only the beginning.

When you irrigate, you also change a number of factors affecting production. And you must consider these in light of the new situation you have created if you are to make your irrigation system bring in the greatest cash return. They are things like soil fertility, diseases, insects, weeds, and spacing.

None of these factors are more important than fertilization. Soil fertility must be maintained at a high level under irrigation. If any one of the nutrient elements are lacking, it can erase the benefits derived from proper irrigation and increased stands.

The amount of fertilizer to apply varies with the past cropping and fertilization practices. Nitrogen is the element most frequently deficient. As a farmer, you will do well to rely on the fertilizer recommendations made for your locality. However, a rule of the thumb to keep in mind for corn is that it takes about two pounds of nitrogen applied in a fertilizer to produce a bushel of corn. If your current rate of fertilization is producing 50 bushels, and you are shooting for 100 bushels with irrigation, you must add another 100 pounds of nitrogen to attain the higher yield.

This is also illustrated in an Arizona test with cotton. Researchers found that the effect of increasing moisture levels was small or negligible when the amount of nitrogen was low. When adequate nitrogen was available, however, the response to moisture was good.

Scientists have found that it works in another way. Soil moisture affects the amount of fertilizer taken up by a plant. As the soil becomes drier, plants have more difficulty in obtaining their required nutrients. This situation is worsened by our placement of fertilizers. Most often it is in the top soil—where the soil becomes dry rapidly. Irrigation keeps the soil moist and, therefore, aids the plants in utilizing the fertilizer you have placed there for them. Experiments show that the amount of fertilizer taken up by plants is in direct proportion to the amount of moisture in the top soil. Thus, there is a tremendous potential for increasing crop yields by combining irrigation and optimum fertilizer use.

In one study, researchers found that irrigation alone increased yields 25 percent. On the same field phosphorous alone increased yields 25 percent. But when irrigation and phosphorous were both applied the yield jumped to a 100 percent increase, or 50 percent more than the sum of the two. That extra 50 percent in yield is attributed to the interaction of the phosphorous and irrigation.

Just what does all of this mean to you—the farmer? It simply means that with irrigation you can profitably use a much higher rate of fertilization. Just how far we can go in this direction no one seems quite sure at present but it opens an entirely new era of bountiful harvests.

◆◆◆

DON'T GAMBLE
ON THE WEATHER
MAKE YOUR OWN
WITH
RED SEAL POWER

Time was when the farmer had no choice but to gamble good seed and hours of hard work on the whims of the weather, over which he had no control. He sowed his crops and hoped for the best, and all too often, he lost. Today, that kind of gambling is as needless as it is dangerous. In fact, irrigation has developed to the point where flooding or sprinkling is more than mere insurance against drought; it's the surest route to higher quality crops and larger yields. No matter what you raise, your need for controlled watering increases year by year, as more and more of the neighbors whose crops compete with yours adopt irrigation as a matter of routine. Have your Continental dealer survey your irrigation needs. Then eliminate the gamble, once and for all, with dependable Continental power.

● ● ● ●

Continental Motors Corporation
MUSKEGON, MICHIGAN

CONTINENTAL MOTORS® Powerful as the Nation AMERICA'S STANDARD

Let Alcoa Research help you help farmers

Alcoa's 70-man research team has been taking a long, close look at aluminum products for the farm. Their work has been showing up in the quality products Alcoa offers for farm use.

One of the most important projects is the continuing research to improve irrigation pipes. A new lighter-than-ever pipe, Alcoa® Lite-Line, recently has been introduced as a result of Alcoa research. It is available either as a seamless extruded pipe or a welded pipe. Alcoa Lite-Line is designed to fill the irrigation requirements of most farmers throughout the country. A heavy-duty pipe, extruded Alcoa Standard, is recommended for long hauls, highest pressures. Alcoa Standard is a seamless pipe.

Information on Alcoa Pipe and other Alcoa farm products is available to help you help farmers. Whether you are a Vo-Ag teacher, a county agent or an agricultural engineer, you are welcome to call on Alcoa for assistance in providing farmers with answers to questions involving aluminum.

For up-to-date information, check off literature on the list below and mail the coupon to Alcoa. Your inquiry will receive prompt attention.

Agricultural Division,
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Please send the items checked.

- ☐ *Pipelines to Profit.* Colorful booklet on portable irrigation.
- ☐ "Right as Rain." 28-minute sound-color film on portable irrigation.*
- ☐ "Barn Raising, U. S. A." 18-minute sound-color film on pole barn construction.*
- ☐ Alcoa Farm Gate Literature. Facts about aluminum gates.
- ☐ *Pole Barn Plans Catalog.* Describes Alcoa plans for nine pole buildings.

*Films may be borrowed for public showings. Specify dates wanted.

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ALCOA ALUMINUM FARM PRODUCTS

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TELEVISION'S FINEST LIVE DRAMA
ALTERNATE SUNDAY EVENINGS

Our FFA Foundation

By John Haid, *National FFA President*

Industry sees our Foundation as Americanism in action. It is the American way and a guardian of our free enterprise system.

WHY does industry contribute to our Foundation? I found the answer on our Annual Good-Will Tour. Most of our stops were to visit companies that are donors to the national FFA Foundation.

As national officers of the FFA, we had studied a lot about the Foundation, and we were pretty well acquainted with the program of awards that the Foundation provides for FFA members who do outstanding work. We knew that about 250 business and industrial concerns throughout the United States make annual contributions to the Foundation to provide money for the awards. Probably like myself, you have wondered just why they did.

I think the Good-Will Tour cleared up my thinking on that subject.

As we met and talked with the people who are in responsible management positions with the donor companies we began to realize that they, like FFA members, are planning for the future. While they're concerned about business today and next week, they also are looking ahead to five, ten, or even fifty years from now. They have checked into the Future Farmer organization, and have decided that money they spend now to encourage FFA members will pay good dividends in the future.

"I like to see a boy who has his goals set high, and who's willing to work hard to get where he wants to go," is the kind of comment we heard frequently.

Two principal reasons for their support of the FFA Foundation were mentioned frequently as we visited them:

The one they put at the top is leadership and citizenship development by farm boys through participation in FFA activities. We found these businessmen very much concerned with the future of our American system of competitive, free enterprise. Their own futures, both as individuals and as companies, depend upon America maintaining the form of government that encourages men to work and take risks in the hope of gaining profit.

Farmers are businessmen, too, and the donors see farmers as allies in their fight to preserve our free enterprise system. They want Future Farmers to develop into strong leaders.

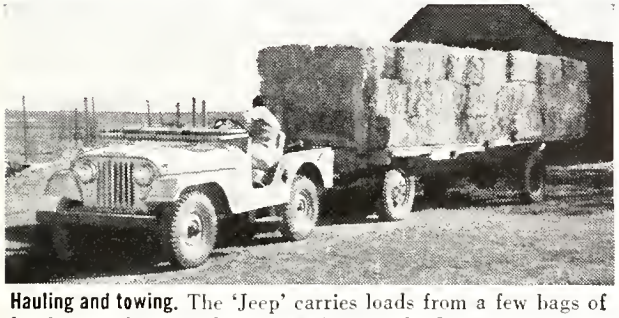
I got the impression that the donors are really sold on the FFA idea of providing activities that keep the members busy at constructive work or good, clean fun. Reading the big city newspapers, these men are confronted every day with stories about juvenile delinquency. They realize that most of this trouble is caused by just a small percentage of the boys and girls, but we heard a lot of comments about what a wonderful thing it would be if there were more organizations like the FFA in city schools.

The donors' second principal reason for supporting the FFA Foundation is because they see that it provides incentives for boys to become good farmers. Good farmers make good customers. One man told us: "Industry spends millions for research to develop

This is the first tire ever vulcanized by using atomic energy. It's first public showing was to the FFA officers.

Farm transportation. With the extra traction of its 4-wheel drive, the Universal 'Jeep'* takes you, your hands, supplies and repair parts most anywhere on your farm—over soft fields or up steep hills, in good weather or bad.

Complete your farm power picture with 'Jeep' versatility and all-wheel traction!



Hauling and towing. The 'Jeep' carries loads from a few bags of fertilizer to farm machinery. With its 4-wheel drive and a special low gear range, it has a drawbar pull of 2300 pounds to haul heavily loaded trailers, on the road or off.

The completely new Forward Control 'Jeep' FC-150 Truck. It's the first time a 4-wheel drive truck has so effectively combined so much cargo capacity (74-inch pickup box), with such exceptional "go-anywhere" maneuverability (81-inch wheelbase).

Regardless of the number and type of vehicles you now have, your farm power picture is not complete without the rugged versatility and all-wheel traction of the Universal 'Jeep'.

The 'Jeep' pays its way every day of the year, whether providing transportation around your farm or between farms and into town, or operating farm implements. With the extra traction of its 4-wheel drive it tows heavily loaded trailers through soft fields, mud and sand in all kinds of weather. On the highway, the 'Jeep' travels in conventional 2-wheel drive at top legal speeds. And when equipped with power take-off or hydraulic lift, it operates most three-point-hitch farm implements and farm equipment from saws to hammer-mills to sprayers.

Your Willys dealer will demonstrate the rugged "go-anywhere" Universal 'Jeep' on your farm without obligation. Just phone him or drop in to tell him when to come out.

The 'Jeep'®

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WILLYS... makers of the world's most useful vehicles

WILLYS MOTORS, INC., TOLEDO 1, OHIO

"I know Calf Manna really helped me win!"

Those are the words of Margaret Ann Nunley, 14-year-old Texas girl, whose Polled Hereford steer, Al Baker, won the grand championship at the San Antonio livestock exhibition last year. "Calf Manna was responsible for the calf's good appetite," adds Margaret Ann.

Choosing the right animal, then keeping him on feed, has been the answer to winning championships through the years. Calf Manna not only keeps animals on feed, but adds a "bloom and flash that catches the judge's eye."

For beef calves, dairy calves, sheep, or hogs, Calf Manna can make the difference between a "blue ribbon" and an "also ran."

Put your show animal in the winner's circle this Fall. Add Calf Manna to his ration today. Any dealer can get Calf Manna and Suckle, Alber's new powerful milk replacer, for you.

Mail coupon today for "10 Private Feeding Formulas" plus a free sample of Calf Manna.

ALBERS MILLING COMPANY, Dept. NF-67
1016 Central St., Kansas City 5, Missouri

☐ Please send me "10 Private Feeding Formulas" plus a free sample of Calf Manna.

Name _____

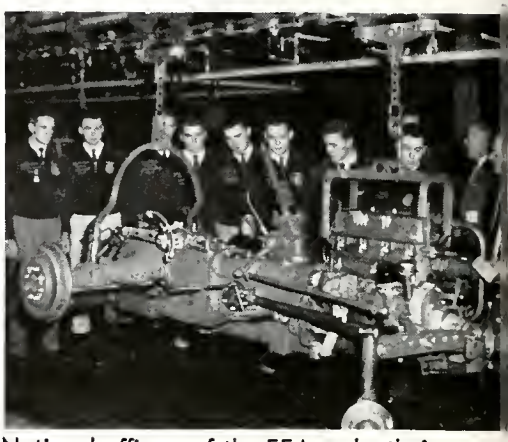
Address or R.F.D. _____

City or Town _____ State _____

Calf Manna

new and better products. Why shouldn't we spend to develop new and better customers"?

And those are the main reasons why busy men of industry—such as the current head of our Foundation Sponsoring Committee, John L. McCaffrey, Chairman of the Board of International Harvester—will take time out from their already crowded schedules to promote contributions to our Foundation. We farm boys are fortunate indeed to have such friends in industry for it is their work that keeps our Foundation going.



National officers of the FFA make their Good Will Tour annually. They visit about forty companies in leading cities.

THE SEASON TO A FARMER

Summer

The fields lying under a blanket,
A far stretching, golden blanket.
A time for harvesting crops,
Pastures to be irrigated,
A time for building barns and sheds,
Plans for the sale of produce to be made.

Fall

The country lying under a blanket,
A crazy quilt of various hues.
A time for cultivating orchards,
Stubble to be burned,
A time for spraying and fertilizing,
Plans for the winter feeding of livestock to be made.

Winter

Everything lying under a blanket,
A glistening, snowy blanket
A time of rest for the fields.
Machinery to be repaired,
A time for pruning trees and vines,
Plans for spring planting to be made.

Spring

The land lying under a blanket,
A sparkling blanket of dewy grass.
A time for spring plowing,
Crops to be planted,
A time for repairing fences and corrals,
Plans for marketing livestock to be made.

By Chuck Francis
Modesto Chapter

Dr. Brody counts his eggs before they're hatched

In the picture above Dr. Gerald Brody, of the MoorMan Research Staff, is counting parasite eggs. Though microscopic in size these eggs, if allowed to develop, will become sizable worms—vicious parasites that retard the growth of livestock and poultry.

The development of products that will effectively get rid of, or control such infections or infestations is Dr. Brody's job. As quickly as such a product is developed in the laboratory, it is tested on thousands of head of livestock or poultry already infected with parasites.

Here, as in so many phases of successful livestock raising, the sharp pencil plays an important role. The "level" of infection is recorded before treatment—and again at given times afterward. Records of weight gains or loss, and records of feed consumed before, during and after the test period are also kept.

It is from such records—and from constant testing and experimentation—that MoorMan research scientists have met the challenge of parasite infections with products that have saved livestock and poultry raisers many millions of dollars.

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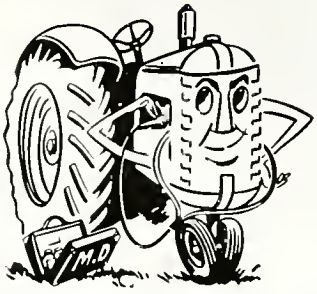
A Stitch in Time . . .



BEFORE STARTING your tractor for the day's operation, check the following points. Make this a hard and fast rule and you will be well repaid for this effort by more efficient operation, longer tractor life, and fewer field delays.

Radiator

Check coolant level in radiator and, if necessary, fill to proper level. If drained to prevent freezing, close drain plugs in radiator and engine and fill to proper level. Make a quick check of the fan belt and determine that radiator shutters (if any) are properly set for the prevailing weather. See that radiator fins are not clogged with chaff, leaves, straw, etc.

Air Cleaner

Check oil in cup for proper level. If excessively dirty, empty and clean the cup; then refill with clean oil of same grade used in crankcase.

Lubrication Operation

With the grease gun, lubricate the fittings which require daily attention according to your Operator's Manual and perform any other daily lubrication or maintenance operations specified for your particular make and model of tractor.

Manifold Heat Control Valve

Check for correct setting for prevailing weather. Set to either full "Hot" or full "Cold" position. Most of these valves are two-position valves and should not be set in an intermediate position.

Fuel Tank

Check for sufficient fuel. If possible fill tank with enough fuel to do the job and thus avoid the necessity of refueling a hot engine in the field, when spilled fuel might ignite from engine surfaces.

Check sediment bowl. Clean if dirty, or if water is present.

Tires

Make quick visual inspection for soft tires. Check with a tire gauge at least every two weeks. Be alert at all times to detect nails, glass or cuts which should have attention before causing serious damage.

Battery

Check water level and add distilled water or clean rain water if low. Check battery connections and battery hold-down nuts.

Crankcase oil level

Check and add oil of proper type and SAE grade if level is low. It is better to change oil at the close of the day's operations when the oil has been circulating and is hot.

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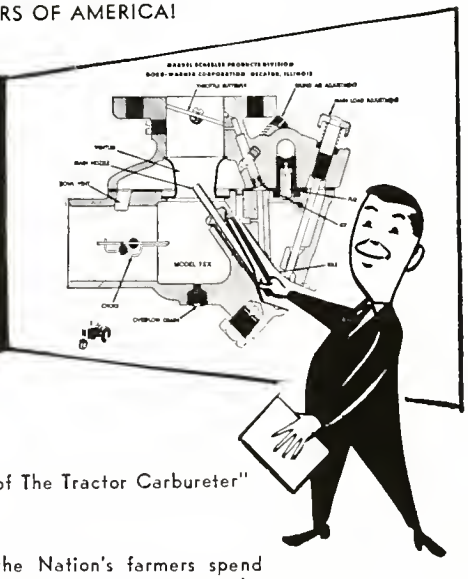
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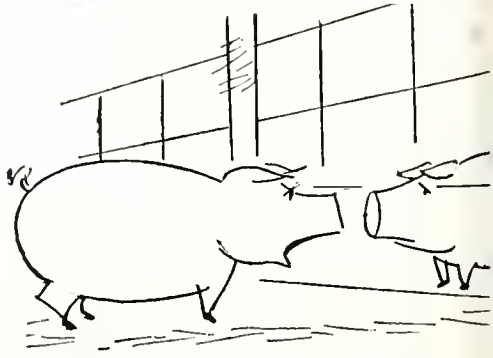


"Who's your veterinarian?

Largest Greenhand

By F. B. Curry

Future Farmers at Burton, Texas believe they have the largest Green Hand member in the entire FFA organization. If they don't, they would like to know who has one larger.

He is 15-year-old Charley Janes who stands six feet six inches tall and weighs 256 pounds. And its not all fat for he is well muscled.

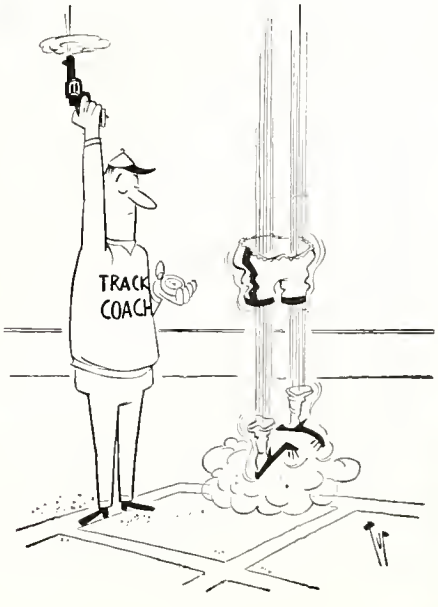
Charley has a way of saving time and trouble. Instead of pushing, rolling, or dragging something to where he wants it, he just picks it up and carries it. For example, when showing his registered sheep and fat market lambs, instead of leading them around like other boys, he carried his.

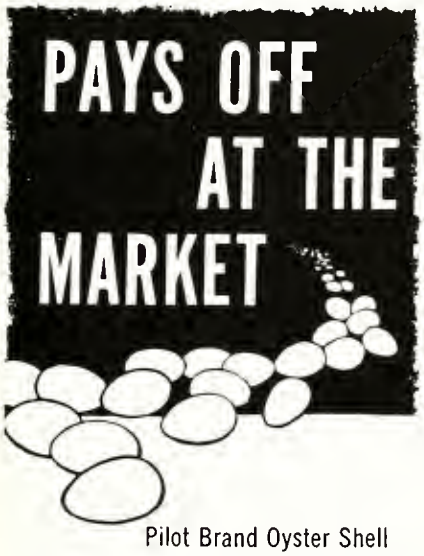
Charley's advisor and classmates feel quite fortunate in having him around. On field trips, if they have too large or salty a calf to tackle, Charley will step in and subdue it. Or if a couple of anvils or bench saws need moving, Charley will dispatch them with ease. And when playing on the football team, Charley as a lineman, makes a terrific gap in the opponents line. In track, he puts the shot about like most of us would shoot a marble.

Charley is likeable, respects his teachers, and he has a great interest in vocational agriculture. Before he entered high school, he had started two of his FFA projects; a feeder lamb and a registered Southdown ewe. His lamb took highest sale money except for champion and reserve champion at the county fair. His ewe took second place in its class. He now has another feeder lamb, some capons for show, and a crop of corn.

◆◆◆

Big Charley Janes of the Burton, Texas, Chapter holds his 130-lb. ewe with ease.





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Light Tackle for Little Fish

By Matt Thomas

LET'S FACE IT—most of us catch small fish. It's nothing to be ashamed of, really. Small fish are most plentiful. Now and then, maybe, we hook into a genuine whopper, but the ordinary stringer-filler is strictly in the panfish class—just the right size, that is, to fit a frying pan. Bluegills, redears, perch, crappies, bullheads—they're the scrappiest fish in our waters, and especially so when you go after them with light tackle.

First of all, they're common. As a matter of fact, conservationists will coax you to catch as many as you can and as often as you like—because, truth is, panfish are too plentiful. One of the big problems in conservation today is cutting down the number of panfish.

And the job is a fairly easy one. Panfish are willing to take almost anything you toss their way and are such prolific breeders that overfishing them is impossible. To top it off, when properly cooked, they're the most flavorful of all fresh-water fish. The only problem is how to get the greatest amount of fun from fishing for them, and light tackle is the answer. Here are some guides on how to outfit yourself.

For bait casting, the standard 5½-foot rod will do, or you can use a six-foot casting rod. Just make certain that you get a rod with plenty of taper toward the tip so that you get the benefit of the antics your fish goes through. And with a whippy rod, incidentally, you'll be able to cast lightweight lures and baits.

The reel is the core of the bait-casting outfit, of course, but you won't need one with drag adjustments. A simple type will do. It can be inexpensive but don't make the mistake of buying one turned out with cheap workmanship. You'll be casting time after time, and a smooth, reliable operation of your reel is part of the fun of bait casting.

Select light lures, too. The ⅝-ounce size is good for panfish, and if you get them much larger, you may scare away the kind of fish you want to catch. Plugs, spinners, wobblers—you can make your choice of these according to where you're fishing and how the fish are feeding. The size is the important thing. Keep them small enough to match the fish you're after.

Fly rods are ideal for these little fish, and an 8-foot length is an excellent choice. With this length rod, you'll get plenty of action, but you'll still be able to fish in brushy quarters.

Two types of fly reels are available: single action and automatic. With the single-action reel, you crank the line onto the spool, but the automatic retrieves the line when you push a button. Automatics, because of the space taken up by the spring mechanism which retrieves the line, hold less line. You don't have as much line to pay out to a fish when it runs, but there's enough for panfish. And the automatic re-wind is a great convenience.

The most important part of the fly-fishing outfit is the line—because it is the weight of the line which casts your light lure or bait. Many different types are available, but they fit these general categories: level lines, which have the same diameter throughout their length; or tapered lines, which have a varying diameter. Some may be torpedo-headed which makes it possible to cast greater distances, and you'll probably find, too, that you can cast better with a tapered line.

Fly patterns, of course, are centuries old. New ones are designed every year, and many fly fishermen carry their kits into the field with them and tie flies which match the most prevalent food being fed on at the time. There are two general kinds of flies: wet flies, which sink and presumably resemble a drowned insect or some immature insect or other aquatic creature; or dry flies, which float on the surface and resemble a surface swimming insect or some other food which has dropped from the foliage above the water. Or you can buy miniature plugs, spoons, or wobblers which can be cast with your fly rod. You can also use natural baits of all kinds.

Spinning, of course, is the newest of the fishing methods in this country. A spinning rod is as light and limber as a fly rod, yet you do not need the space for a long backcast. But it is the spinning reel which makes the method so different. On the cast, the spool of the spinning reel does not turn at all. The lightweight lure—⅝ of an ounce or less—strips line smoothly from the end of the spool. It pulls off in coils which straighten out as they pass through a series of successively smaller guides along the length of the rod. You can cast light lures such a great distance with a spinning outfit because there is almost no resistance to overcome.

The customarily used spinning line is a single strand of nylon, called monofilament, and is nearly invisible. For this reason spinning is often called thread-line fishing. You can get all kinds of spinning lures, too. There are spinning-size copies of all the old favorite bait-casting lures plus hundreds of new designs. Or you can use your spinning outfit with natural baits.

A few years ago fishermen gave you a strange look when you came out with a spinning outfit. It's a method which has been used in this country only since World War II. But nowadays you'll find a lot of fishermen using this versatile method of fishing, and it seems to have been made especially for taking panfish.

Most important, you must change your mental outlook toward fishing if you want to enjoy panfishing to the fullest. Keep in mind that it's not the size of the fish that counts, it's the fun you have catching it. And with light tackle, you can have fun fishing the year 'round, no matter where you live.

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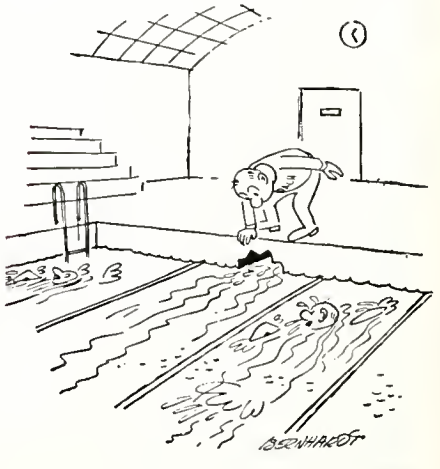

Swimming Wild

By L. L. Wightman

DON NEWTON glanced at the contestants on the pier, and tried to convince himself he had a chance to qualify in this elimination race. The first three swimmers crossing the finish line would comprise the Academy team of half-milers. He wanted to be a member of that select group.

"I can do it," he sought to assure himself. "I can finish first if I swim as I should." First wasn't necessary; third would gain him a position on the team. He frowned as Jack Kearny stepped into position beside him.

"Hello, Snail," Jack greeted him in a very patronizing tone. "Going for a swim? Looks like you're entering the race. Better get a rope and let me tow you so folks will know you belong in our group."

Don's temper simmered, seethed, then boiled. He could take caustic remarks from most people, but not from Jack Kearny.

"Okey, smart guy," he fired back. "Tell me that at the finish."

"I will if you're close enough so I can make you hear," Jack retorted.

"ON YOUR MARKS!"

The shout of the starter brought the minds of the young men to the race before them. Ten contestants sprang into position. CRACK! At the bark of the pistol ten bodies arched themselves into the water.

Don had planned his race, knowing what he must do in order to win. But Jack's taunts provided the disturbing factor to upset his mental balance. With the cheers of the crowd ringing in his ears, he assumed the lead at the start instead of taking it easy as planned. If Jack won that race, he would have to be superman.

Don had two objectives—win a place on the team, and beat Jack Kearny. "Beat Jack, beat Jack," rang in his ears as he maintained his lead. Then an inner voice cautioned him. "Slow down. You can't keep this pace for the distance." Cooler judgment prevailed as he realized what he was doing. This was not a sprint to be maintained at high speed.

Don slackened speed to a more sensible stroke adapted for endurance. He realized his mad sprint had upset the plan he had carefully formulated. He seemed to tread water as the other swimmers closed the margin of difference. Two of them passed him, then Jack Kearny pulled up alongside him with an exasperating smile on his lips.

"See you later," Jack taunted him. He had goaded Don into one error: perhaps he could repeat it.

Don fell for it. He began a furious sprint, hoping to regain the lead. Somehow his arms and legs failed to give him perfect coordination, an essential to championship form. His action became frenzied.

Would he fail to gain a place on the team? The thought made him desperate. He couldn't lose! He must win! But his arms seemed powerless; his legs felt like weights. How foolishly he had wasted his strength!

"You're through — through —" rang out his inner voice.

"I am not," Don snapped, seeing Jack Kearny swimming as steady a race as one might wish. He could overtake Jack! Counting his strokes, he timed them in perfect rhythm which produced results. He should have done that at the start, and maintained a semblance of system. Perhaps it wasn't too late to overcome the effect of his errors.

He reached the float and turned back towards the pier. Quickening his strokes, keeping them even and powerful, he slowly cut down the margin of distance, gaining consistently on Jack.

A motorboat sped past the swimmers. Don recognized Theda Mason, daughter of Dean Mason, in the boat; saw her wave to Jack Kearny. No glance came Don's way. That was another reason why he must beat Jack. Anger seethed through him.

The swimmers approached the pier from which they started. Time for that last mad sprint where all reserve strength would be utilized. Suddenly Don's world went into a tailspin. System became discord; rhythm became confusion.

Deafening cheers from the crowd urged the individual swimmer to greater effort. The judges stood ready to record results as the timers snapped their watches. Then came the booming roar which announced the winner.

"Kearny! Kearny!"

No one seemed particularly interested in Don when he reached the pier. Only the first three counted. He finished fourth! He tried to hide his disappointment, to slip away unnoticed.

"Don!"

He turned to see Theda Mason hastening towards him.

"I'm sorry you lost," she said, sincerely. "I hoped you would win a place on the team. You're a better swimmer than some of those who finished ahead of you."

Don mumbled something in reply, but never did recall what he said, for at that moment Jack Kearny appeared.

"I'll be ready in ten minutes, Theda," Jack said. Acting surprised at Don's presence, he said, "Hi there, Snail. Tough luck, kid. Next time we'll take the rope along. Bye, bye."

Pity from the girl he admired; taunts from the rival who had defeated him.

If the girl were only somewhere else so he could plant a blow on that chin!

He had done the best he could, he consoled himself when alone. Then he wondered about that. He started off balance, his judgment out of control; erred during the race; finished in a burst of misjudgment. His real objective had been obscured by a personal grudge. He paid for his folly by losing. He knew it was entirely his fault.

"A man always loses when he loses control of himself," he voiced his conclusion. But regrets are useless after a man has lost. Knowing where his weakness lies, he can seek to overcome it. If only he could race again! But the team was complete. He had lost out. To his mind there came the conclusion of a wise man of old. "He that is slow to anger is better than the mighty: and he that ruleth his spirit, than he that taketh a city."

Two weeks later several of the students were invited to be guests of the dean and his wife at their lodge on Moose River. Don and Jack were among the guests. Jack's presence was the fly in Don's ointment, but he decided that this time he would be master of his spirit.

To Don's surprise, Jack made no remarks of a taunting nature. This puzzled him. Could it be, that having accomplished his purpose, Jack was satisfied? He had made Don look foolish. Why carry it farther? Or maybe someone had talked to him.

The lodge in the foothills sat in the midst of a pine grove facing the river. The largest cabin, the lodge itself, was flanked by smaller cabins. The river in front of the lodge flowed placidly along shore, but farther out the current became swift and powerful. Swimmers were cautioned to stay within bounds.

Saturday afternoon was beautiful. Don took a book, left his companions, and threw himself on the ground in the shade of a towering pine. He alternately read and watched swimmers in the river. The warmth of the summer sun took toll on him. He closed the book, then his eyes. The sound of voices faded away in the distance.

A piercing scream woke him with a start. He sprang to his feet, but it took a few seconds to diagnose the cause of the excitement. Then he saw Theda

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Manners Made Easy

By Wm. Paul Gray

JUST what is meant by good character? I believe that it is much more than any one person ever stops to think about. It is honesty, integrity, resourcefulness, intelligence, morality, wiseness, religiousness, and thoughtfulness all combined to make a quality that is indeed very hard to describe. A man with a good character never will show open irrational disrespect towards his fellow man. He will never be heard swearing profusely. He is always truthful with himself as well as others. He is resourceful in speech, action, and thought. He makes intelligent decisions and doesn't always think of himself first. He has the very highest moral standards, he respects religious plan and action—one could go on and on naming qualities.

Sportsmanship, like good manners and high character, is very important to good living. Show respect for your fellow man in every game you play whether it is on the football field or in the office, in the class room or at home. The biggest show of unsportsmanlike conduct is the lack of ability to accept decisions by someone else that doesn't suit you because they aren't in your favor. This occurs everywhere, all the time. A good sportsman has respect for his fellow man in all situations, accepts decisions without gripes, and will own up to his work whether he feels that it is out of line or not. He has confidence in his work and in the work of his fellow man.

The entire creed of the FFA deals with working with others, respecting other people, honest wealth and believing in the best traditions that will help influence "my home and my community." ◆◆◆

Mason—he knew that red and blue cap—struggling out in the river. She had gone too far from shore, and was caught in the strong current.

Shaking off his momentary paralysis, Don kicked off his sandals and raced for the water. "I'll get her," someone shouted in his ear. He turned his head to see Jack Kearny running alongside of him. So Jack was inviting him to take a back seat again! For an instant his temper flared. Was this to be a repetition of that previous race?

The momentary feeling passed. No time now to indulge in personalities. The girl in trouble should be reached as soon as possible. Two rescuers would be no surplus.

They hit the water together as they started for the distressed swimmer. They saw Theda sink from sight, then bob into sight an instant later, calling for help as she struggled furiously.

"Take it easy," Don shouted, hoping to quiet the frantic girl. He quickened his strokes, timing them in perfect rhythm, which ate up the distance in remarkable time. Again the girl sank from sight. By this time Don had neared the spot where she disappeared. He glimpsed the dark figure in the water, went down after her, and struggled to the surface.

Theda fought aimlessly, her strength increased by her hysteria. But help was at hand in the person of Jack Kearny. Between them they managed to control the girl until a boat reached them.

After supper the greater part of the group gathered around the campfire. Theda had recovered to a great extent from her harrowing experience, but the excitement of the near tragedy remained.

Phil Stearns remarked about an overlooked angle. "Did you notice that Don beat Jack in a straightaway race. How about that, Jack?"

Jack, displeased at the mention of that fact, looked at Phil sourly. His face flushing angrily, he admitted, "Well, he did get there first."

"I'll say he did," Phil declared. "You started from scratch, and Don beat you. I think the coach better reconsider his swimming team. Don belongs on that team."

Don, sensing trouble brewing, tried to check it. "Nothing doing," he declared. "I had my chance. Every place on the team was won on merit. I'm out of it this year, but next year—" It was a challenge.

Today he had proof of certain elements that contribute to success. He had started under balance, kept his judgment under control, aimed his sights on his objective, concentrated his efforts to reach that objective. Jack had better gain what laurels he could this year. Next year could be a different story.

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Sportrait

By Stan Allen

AS USUAL, the New York Yankees are expected to win the American League title in Major League Baseball again this year. A lot of their success will depend on Mickey Mantle, a husky twenty-five year old veteran of five full seasons in the major leagues.

Mickey was born in Spavinaw, Oklahoma. From an early age, he was taught and trained by his father to be the player that he is today. His father was a good teacher, too. After being spotted by the Yankee scouts, Mickey jumped from the city league in Commerce, Oklahoma, to major league ball.

He played the 1949 season with the Independence, Missouri, minor league team and hit for a .313 average. In 1950 he was sent to the Joplin, Missouri, team where he upped his average to .383 and hit 26 home runs. Then in 1951, at the Yankee training camp at Phoenix, Arizona, the Yankee coaches thought he was ready for the majors and Mickey went North with the team. One can imagine the feelings of this 19 year old when he walked into Yankee Stadium among the shadows of Babe Ruth, Lou Gehrig, Joe DiMaggio, and other Yankee greats.

Mickey played in 96 games with the Yankees in 1951 before the coaching staff decided that he needed more experience and sent him to Kansas City. With the Yankees that year he hit at a .267 clip with 13 home runs and with Kansas City he hit .361 in 40 games with 11 home runs.

Mickey came back to the Yankees in 1952 for his first full season with the team and began to display the form that was expected of him. He had 171 hits that season, 67 for extra bases, and finished with a .311 batting average with 23 home runs. In the 1952 World Series, Mickey had 10 hits out of 29 times at bat for a .345 average. He helped the Yankees win the series with his two home runs.

In 1953 Mickey's average dropped to .295 although he did come through with 21 home runs. He came through at the right times too, driving in 92 runs. Mickey began to regain his form in 1954 and finished the season with a .300 batting average with 27 home runs. Then, in 1955, his batting average climbed to .306 and he hit 37 home runs. His runs-batted-in mark hovered around the 100 mark during both of these seasons.

It was in 1956 that Mickey really began to roll. He finished the season with a .353 batting average, drove in 130 runs, and hit 52 home runs to lead both leagues in those departments. He became the seventh player in baseball to win Baseball's Triple Crown. He was

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also voted the American League's Most Valuable Player in 1956. It was believed by many that he would be the one to finally break Babe Ruth's record of 60 home runs in one season. In fact, Mickey was ahead of Ruth's 1927 pace during most of the season.

Mickey Mantle has not only excelled at hitting but is considered one of the best center fielders in the league. He is exceptionally fast and has a strong throwing arm. Last year his fielding percentage was .990. During the five years in the majors, his fielding average has never dropped below .963. He has been elected the American League entry in the All-Star game for the last four years and has compiled a combined .294 batting average with two home runs. One of the most feared hitters in the league, he can bat from either side of the plate.

Although Mickey has never quite filled the shoes of Joe DiMaggio, he has all the tools needed. According to Yankee Manager Casey Stengel, "he can do more things better than anybody else in the game." Many of the experts believe that barring a recurrence of old leg injuries, Mickey will go on to write many more entries into the record books. They also believe that Mickey Mantle is the player in the majors today that has the best chance of breaking Babe Ruth's home run record.

◆◆◆

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Dad to lad: *"Well, son, you're right. This old report card of mine you found in the attic isn't any better than yours. I guess the only fair thing to do is give you what my father gave to me."*

James E. Sullivan
Albany, Oregon

The Sunday school teacher was reviewing a lesson. *"Who led the children of Israel out of Egypt?"*

There was no answer, so she pointed to a little boy at the back of the room and asked him.

"It wasn't me," he said timidly, *"we just moved here last week from Missouri."*

Harry A. Petermann
R. R. 2
Stillwater, Oklahoma

As a creaking buggy drawn by a swaybacked horse approached a 20 m.p.h. speed zone, the driver was heard to say, *"You handle the reins, ma. I'll take the whip and we'll see if we can make it."*

Delbert Friesen
Box 206
Hammon, Oklahoma

Mother missed the eggs from under the turkey hen and asked little Bill if he knew what had become of them.

"Sure, I know," said Bill. *"I put them in the dog house. We want puppies, not turkeys!"*

Guy Lee Long
Bulls Gap, Tennessee
Route 1

Teenager (as the radio ground out the final notes of the latest bit of swing): *"Did you ever hear anything so wonderful?"*

Father: *"Only once—when a truck loaded with empty milk cans hit a freight car filled with ducks."*

Leslie Fisher
Sumner, Michigan

A small Pennsylvania boy, who later became a very successful businessman, once asked a neighbor farmer the price of a big melon.

"That's forty cents," said the farmer.

"I have only four cents," the boy told him.

"Well," smiled the farmer, and winked at his hired hand as he pointed to a small and green melon, *"how about that one?"*

"Fine I'll take it," the boy said, *"but don't cut it off the vine yet. I'll call for it in a few weeks."*

Gary Broyles
Box 422
Hinton, Oklahoma

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Prospective father-in-law to his daughter's young man: *"And what are your prospects?"*

Young man: *"Oh, pretty good! Unless your daughter has misled me."*

Frank A. Geiser
R 1
Apple Creek, Ohio

A big Texas oilman went to his dentist. After examining his teeth carefully, the dentist told him they were perfect, that he didn't find one cavity.

The oilman replied, *"Well, Doc, drill anyway, I feel lucky today."*

Charles Bunnell
Route 4, Box 162
Richton, Mississippi

Prison Warden: *"I've had charge of this prison for ten years, and we're going to celebrate. What kind of party do you boys suggest?"*

Prisoners: *"Open house."*

Ted Geno
RR 2
Herperia, Michigan

Charlie, the Green Hand

"If I didn't like you best, would I give you my hog's prize ribbon?"

The National FUTURE FARMER *will pay $1 for each joke published on this page. Jokes should be submitted on post cards addressed to The National* FUTURE FARMER, *Box 29, Alexandria, Virginia. In case of duplication, payment will be made for the first one received. Contributions cannot be acknowledged or returned.*

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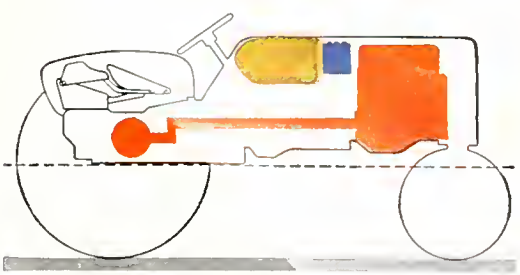

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